Environment Canada Environnement Canada

Surface Water Data

Alberta

Données sur les eaux de surface

1990

INLAND WATERS DIRECTORATE
WATER RESOURCES BRANCH
WATER SURVEY OF CANADA
OTTAWA, CANADA, 1991

DIRECTION GÉNÉRALE DES EAUX INTÉRIEURES
DIRECTION DES RESSOURCES EN EAU
DIVISION DES RELEVÉS HYDROLOGIQUES DU CANADA
OTTAWA, CANADA, 1991

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PREFACE

This publication was prepared by personnel of the Water Survey of Canada Division under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch at Calgary, Alberta.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

La Division des relevés hydrologiques du Canada, sous l'autorité du Directeur des ressources en eau du ministère de l'Environnement (Ottawa), a préparé la présente publication.

On a recueilli et compilé les données de base sous la supervision du Chef régional de la Direction des ressources en eau, à Calgary (Alberta).

On remercie vivement les organismes provinciaux, ou autres, pour la coopération qu'ils ont apportée.

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INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents for the 1990 calendar year, the results of the hydrometric survey investigations which were made in Alberta by the Water Survey of Canada.

Details on individual stations and related records, as well as recent data which have not yet been published, may be obtained upon application to:

Water Resources Branch,
Department of the Environment,
Bag 2909,
Postal Station 'M',
(Room 854,
220–4th Avenue S.E.,)
Calgary, Alberta.
T2P 2M7
(403 292–5315)

or to the Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0H3 (819 997–2098).

ORGANIZATION AND HISTORY OF HYDROMETRIC SURVEY OPERATIONS

During 1990, the hydrometric surveys in Alberta were conducted by the Water Survey of Canada under agreement with the Province of Alberta. The provincial authorities contributed to the cost of the basic field investigations which were carried out in accordance with mutually agreed-upon plans.

INTRODUCTION

La Direction des ressources en eau du ministère de l'Environnement présente, pour l'année civile 1990, les résultats des relevés hydrométriques que la Division des relevés hydrologiques du Canada a effectués en Alberta.

En s'adressant aux endroits ci-après, on peut obtenir des renseignements supplémentaires sur certaines stations particulières et divers relevés, ainsi que des données récentes non encore publiées:

Direction des ressources en eau
Ministère de l'Environnement
Sac postal 2909
Succursale postale 'M'
(Pièce 854,
220, Quatrième avenue S.-E.)
Calgary (Alberta)
T2P 2M7
(403 292–5315)

ou au Direction des ressources en eau, ministère de l'Environnement, Ottawa (Ontario), K1A 0H3 (819 997–2098).

ORGANISATION ET HISTORIQUE DES RELEVÉS HYDROMÉTRIQUES

En 1990, la Division des relevés hydrologiques du Canada a effectué des relevés hydrométriques en Alberta en vertu de l'accord conclu avec les autorités provinciales, qui ont contribué au coût des recherches de base réalisées sur le terrain, après entente mutuelle sur leur programme.

Stream measurement work was carried on between 1894 and 1908 in connection with the Canadian Irrigation Surveys. Early in 1909 the Hydrometric Survey was organized as part of the Forestry and Irrigation Branch and was conducted by the Branch until 1911. The Hydrometric Survey was then assigned to the Irrigation Branch (later the Reclamation Service) remaining in that organization until July, 1920, when it was transferred to the Dominion Water Power Branch. Following the transfer of the natural resources of Alberta to provincial control as of October 1, 1930, a co-operative agreement was arranged with the Government of Alberta for the continuance of the hydrometric survey by the federal government. Although this agreement was terminated in 1933 work was continued by the federal government under letter arrangement until 1975. A co-operative agreement, (with an implementation date of April 1, 1975), was signed with the Government of Alberta on April 15, 1975. The agreement provides that water quantity surveys will be continued by the federal government on a shared cost basis.

CO–OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Runoff and other data have been mutually exchanged and stream-gauging operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain gauging stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining hydrometric survey records, the Water Survey of Canada is indebted to the following organizations:

Federal – Department of Public Works;
Department of Agriculture, Research Branch.

Provincial – Alberta Forest Service;
Department of the Environment, Water Resources Branch, Alberta;
St. Mary-Milk River Development Commission, Alberta.

Municipal – City of Calgary, Alberta.

Private – Western Irrigation District;
Eastern Irrigation District;
United Irrigation District;
Lethbridge Northern Irrigation District;
Northern Transportation Company;
Syncrude Canada Limited;
TransAlta Utilities Corporation;
Canadian Utilities Limited;
North Western Pulp and Power Limited;
St. Mary River Irrigation District.

Entre 1894 et 1908, des relevés ont été effectués en même temps que les levés canadiens relatifs à l'irrigation. Au début de l'année 1909, un service des relevés hydrométriques a été créé au sein de la Direction des forêts et de l'irrigation, qui s'en est occupée jusqu'en 1911. L'exécution de ces relevés a ensuite été confiée à la Direction de l'irrigation (devenue plus tard le Service de la mise en valeur des terres), et ce jusqu'en juillet 1920, date à laquelle la Direction fédérale de l'énergie hydraulique en a pris charge. Après que la responsabilité des ressources naturelles de l'Alberta a passé à cette dernière, le 1er octobre 1930, un accord de coopération a été conclu avec son gouvernement, aux termes duquel le gouvernement fédéral s'est engagé à poursuivre l'exécution des relevés hydrométriques. L'accord à pris fin en 1933, mais en vertu d'une lettre d'entente, le gouvernement fédéral a continué d'exécuter les observations hydrométriques jusqu'en 1975. Le 15 avril 1975, le gouvernement de l'Alberta a signé un nouvel accord, qui est entré en vigueur le 1er avril 1975, renfermant des dispositions grâce auxquelles le gouvernement fédéral s'occupera du programme de relevés hydrométriques et partagera le coût des mesures avec la province.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données portant sur l'écoulement ou sur d'autres points, et l'assistance fournie par beaucoup d'organismes a facilité les opérations de jaugeage.

Pour ce qui est des eaux adjacentes à la frontière internationale, certaines stations de jaugeage dépendent du Canada (ou des États-Unis) suite à un accord avec les États-Unis (ou le Canada), et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage».

La Division des relevés hydrologiques du Canada est redevable aux organismes suivants de l'aide et de la collaboration précieuses qu'ils lui ont apportées lors de la prise des relevés hydrométriques:

Niveau fédéral – Ministère des Travaux publics,
Direction de la recherche du ministère de l'Agriculture.

Niveau provincial – *Alberta Forest Service*,
Direction des ressources en eau du ministère de l'Environnement de l'Alberta,
St. Mary-Milk River Development Commission, Alberta.

Niveau municipal – Ville de Calgary, Alberta.

Secteur privé – *Western Irrigation District*,
Eastern Irrigation District,
United Irrigation District,
Lethbridge Northern Irrigation District,
Northern Transportation Company,
Syncrude Canada Limited,
TransAlta Utilities Corporation,
Canadian Utilities Limited,
North Western Pulp and Power Limited,
St. Mary River Irrigation District.

EQUIVALENTS OF MEASURE

The following list of convenient equivalents of measure includes the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 m^3 (cubic metre)
1 m^3 (cubic metre) equals 35.315 cubic feet
1 dam^3 (cubic decametre) equals 1000 m^3 (cubic metres)
1 dam^3 (cubic decametre) equals 1 mm (millimetre) over 1 km^2 (square kilometre)

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)
1 m^3/s (cubic metre per second) for one day equals 86.4 dam^3 (cubic decametre)
1 m^3/s (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit – 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

ÉQUIVALENCES DES UNITÉS DE MESURE

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre équivaut à 1.6093 km (kilomètre)

1 cm (centimètre) équivaut à 0.393 70 pouce
1 m (mètre) équivaut à 3.2808 pieds
1 km (kilomètre) équivaut à 0.621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre équivaut à 0.404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré équivaut à 2.5900 km^2 (kilomètres carrés)
1 mille carré équivaut à 259.0 ha (hectare)

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) équivaut à 2.4710 acres
1 km^2 (kilomètre carré) équivaut à 0.386 10 mille carré

1 pied cube équivaut à 6.2288 gallons impérials
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon impérial équivaut à 1.2010 gallon américain
1 gallon américain équivaut à 0.133 68 pied cube
1 pied cube vaut 0.028 317 m^3 (mètre cube)
1 m^3 (mètre cube) vaut 35.315 pieds cubes
1 dam^3 (décamètre cube) vaut 1000 m^2 (mètres cubes)
1 dam^3 (décamètre cube) vaut 1 mm (millimètre) qui couvre 1 km^2 (kilomètre carré)

1 pied cube par seconde pendant un jour équivaut à 1.9835 acre-pied
1 pied cube par seconde pendant un jour équivaut à un volume d'un mille carré par 0.037 19 pouce
1 acre-pied équivaut à 1.2335 dam^3 (décamètres cubes)
1 m^3/s (mètre cube par seconde) pour un jour vaut 86.4 dam^3 (décamètre cube)
1 m^3/s (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0.0864 m (mètre)

1 pied par seconde équivaut à 0.6818 mille par heure
1 mille par heure équivaut à 1.467 pied par seconde
1 m/s (mètre par seconde) vaut 3.6 km/h (kilomètre par heure)
1 km/h (kilomètre par heure) vaut 0.2778 m/s (mètre par seconde)

1 pied cube par seconde équivaut à 0.028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) équivaut à 35.315 pieds cubes par seconde

1 livre équivaut à 0.453 59 kg (kilogramme)
1 kg (kilogramme) équivaut à 2.2046 livres

1 tonne courte (2000 livres) équivaut à 0.907 18 t (tonne)
1 t (tonne) équivaut à 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit – 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

DEFINITION OF TERMS AND ABBREVIATIONS

"Control" is the condition downstream from a gauging station that determines the stage-discharge relationship. It may be a stretch of rapids, a weir or other artificial structure. In the absence of such features, the control may be a less obvious condition such as a convergence of the channel or even simply the resistance to flow through a downstream reach. A shifting control exists where the stage-discharge relationship tends to change because of impermanent bed or banks.

"Cubic metres per second" (m^3/s) is a unit expressing rate of discharge. One cubic metre per second is equal to one cubic metre of water flowing past a particular point in one second. This is the basic unit in general use, other units being computed from it by the use of factors as given in the previous paragraph under "Equivalents of Measure".

"Gauging station" is a location where systematic records of stage or stage and discharge are obtained.

"Miscellaneous (or related) data" is all data not published in the regular series of hydrometric and sediment data publications such as unpublished water levels and the various parameters that are measured in obtaining discharge measurements, e.g. water depth, velocity, width, air and water temperatures, ice thickness. This also includes discharge measurements and water level and sediment observations obtained at locations which are not regular gauging stations. Various types of "derived" data could also be considered "miscellaneous", such as water levels and discharges at selected time intervals (usually hourly).

"Stage-discharge relationship" is the relation between the water level and the discharge at a gauging station.

PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

Surface Water Data have been published in a variety of formats in imperial units since 1908 in approximately 300 publications which are now mostly out-of-print. Commencing with the 1979 publications, data are presented in the International System of Units (SI). However, the format has remained the same wherein Canada is divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province(s) or territories covered and the year in which data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically, with two years of data per page.

DÉFINITIONS DES TERMES ET ABRÉVIATIONS

«Élément régulateur» – élément qui conditionne l'écoulement en aval d'une station de jaugeage et qui détermine la relation hauteur-débit au niveau de la station. Ce peut être une série de rapides, un déversoir ou toute autre structure artificielle. En l'absence de ces structures, l'élément régulateur peut provenir d'une condition moins apparente comme le rétrécissement d'un chenal ou simplement la résistance à l'écoulement d'un tronçon situé en aval. Il y a élément régulateur changeant quand la relation hauteur-débit tend à être modifiée par un lit ou des rives instables.

«Mètres cubes par seconde» (m^3/s) – unité du taux d'écoulement. Un mètre cube par seconde équivaut à un mètre cube d'eau s'écoulant en un point donné en une seconde. C'est l'unité de base généralement employée, les autres unités dérivées à partir de celle-ci sont données sous la rubrique «Équivalences des unités de mesure».

«Station de jaugeage» – lieu où l'on effectue des relevés systématiques de la hauteur ou de la hauteur et du débit de l'eau.

«Les données diverses (ou connexes)» – représentent toutes les données qui ne sont pas publiées dans les séries régulières des publications sur les données hydrométriques et les sédiments, par exemple celles des niveaux des eaux et des autres paramètres qui sont mesurés en même temps que le débit, soit la profondeur de l'eau, sa vitesse, son étendue, la température de l'eau et de l'air, l'épaisseur de la glace. Les mesures de débit ainsi que les observations sur les niveaux des eaux et les sédiments, obtenues à des emplacements autres que les stations régulières de jaugeage, sont aussi incluses. D'autres types de données «dérivées» pourraient aussi être classées dans cette catégorie de données «diverses», à savoir les niveaux des eaux et les débits observés à des intervalles de temps précis (en général, toutes les heures).

«Relation hauteur-débit» – relation qui existe entre la hauteur et le débit au niveau d'une station de jaugeage.

PUBLICATION DES DONNÉES SUR LES EAUX DE SURFACE ET LES SÉDIMENTS

Depuis 1908, les *Données sur les eaux de surface* ont été publiées, en utilisant diverses formules et en ayant recours au système d'unités impériales, dans quelque 300 publications lesquelles sont pour la plupart épuisées. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Toutefois, la présentation est toujours la même, c'est-à-dire que le Canada est divisé en huit régions. Chaque province représente une région distincte sauf le Nouveau-Brunswick, la Terre-Neuve, la Nouvelle-Écosse et l'Île-du-Prince-Édouard qui constituent la région des provinces de l'Atlantique, comme c'est le cas aussi pour le Yukon et les Territoires du Nord-Ouest qui sont réunis en une seule région. Les publications sont identifiées par le nom des provinces ou territoires concernés et par l'année de la cueillette des données. Les données sont publiées annuellement, en fonction de l'année civile, et les stations sont classées par ordre alphabétique, chaque page de données couvrant deux années.

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1 cubic foot equals 0.028 317 m^3 (cubic metre)
1 m^3 (cubic metre) equals 35.315 cubic feet
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1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

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1 m^3/s (mètre cube par seconde) équivaut à 35.315 pieds cubes par seconde

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degrés Fahrenheit = 9/5 (degrés Celsius) + 32

DEFINITION OF TERMS AND ABBREVIATIONS

"Control" is the condition downstream from a gauging station that determines the stage-discharge relationship. It may be a stretch of rapids, a weir or other artificial structure. In the absence of such features, the control may be a less obvious condition such as a convergence of the channel or even simply the resistance to flow through a downstream reach. A shifting control exists where the stage-discharge relationship tends to change because of impermanent bed or banks.

"Cubic metres per second" (m^3/s) is a unit expressing rate of discharge. One cubic metre per second is equal to one cubic metre of water flowing past a particular point in one second. This is the basic unit in general use, other units being computed from it by the use of factors as given in the previous paragraph under "Equivalents of Measure".

"Gauging station" is a location where systematic records of stage or stage and discharge are obtained.

"Miscellaneous (or related) data" is all data not published in the regular series of hydrometric and sediment data publications such as unpublished water levels and the various parameters that are measured in obtaining discharge measurements, e.g. water depth, velocity, width, air and water temperatures, ice thickness. This also includes discharge measurements and water level and sediment observations obtained at locations which are not regular gauging stations. Various types of "derived" data could also be considered "miscellaneous", such as water levels and discharges at selected time intervals (usually hourly).

"Stage-discharge relationship" is the relation between the water level and the discharge at a gauging station.

PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

Surface Water Data have been published in a variety of formats in imperial units since 1908 in approximately 300 publications which are now mostly out-of-print. Commencing with the 1979 publications, data are presented in the International System of Units (SI). However, the format has remained the same wherein Canada is divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province(s) or territories covered and the year in which data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically, with two years of data per page.

DÉFINITIONS DES TERMES ET ABRÉVIATIONS

«Élément régulateur» – élément qui conditionne l'écoulement en aval d'une station de jaugeage et qui détermine la relation hauteur-débit au niveau de la station. Ce peut être une série de rapides, un déversoir ou toute autre structure artificielle. En l'absence de ces structures, l'élément régulateur peut provenir d'une condition moins apparente comme le rétrécissement d'un chenal ou simplement la résistance à l'écoulement d'un tronçon situé en aval. Il y a élément régulateur changeant quand la relation hauteur-débit tend à être modifiée par un lit ou des rives instables.

«Mètres cubes par seconde» (m^3/s) – unité du taux d'écoulement. Un mètre cube par seconde équivaut à un mètre cube d'eau s'écoulant en un point donné en une seconde. C'est l'unité de base généralement employée, les autres unités dérivées à partir de celle-ci sont données sous la rubrique «Équivalences des unités de mesure».

«Station de jaugeage» – lieu où l'on effectue des relevés systématiques de la hauteur ou de la hauteur et du débit de l'eau.

«Les données diverses (ou connexes)» – représentent toutes les données qui ne sont pas publiées dans les séries régulières des publications sur les données hydrométriques et les sédiments, par exemple celles des niveaux des eaux et des autres paramètres qui sont mesurés en même temps que le débit, soit la profondeur de l'eau, sa vitesse, son étendue, la température de l'eau et de l'air, l'épaisseur de la glace. Les mesures de débit ainsi que les observations sur les niveaux des eaux et les sédiments, obtenues à des emplacements autres que les stations régulières de jaugeage, sont aussi incluses. D'autres types de données «dérivées» pourraient aussi être classées dans cette catégorie de données «diverses», à savoir les niveaux des eaux et les débits observés à des intervalles de temps précis (en général, toutes les heures).

«Relation hauteur-débit» – relation qui existe entre la hauteur et le débit au niveau d'une station de jaugeage.

PUBLICATION DES DONNÉES SUR LES EAUX DE SURFACE ET LES SÉDIMENTS

Depuis 1908, les *Données sur les eaux de surface* ont été publiées, en utilisant diverses formules et en ayant recours au système d'unités impériales, dans quelque 300 publications lesquelles sont pour la plupart épuisées. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Toutefois, la présentation est toujours la même, c'est-à-dire que le Canada est divisé en huit régions. Chaque province représente une région distincte sauf le Nouveau-Brunswick, la Terre-Neuve, la Nouvelle-Écosse et l'Île-du-Prince-Édouard qui constituent la région des provinces de l'Atlantique, comme c'est le cas aussi pour le Yukon et les Territoires du Nord-Ouest qui sont réunis en une seule région. Les publications sont identifiées par le nom des provinces ou territoires concernés et par l'année de la cueillette des données. Les données sont publiées annuellement, en fonction de l'année civile, et les stations sont classées par ordre alphabétique, chaque page de données couvrant deux années.

The first edition of a *Surface Water Data Reference Index* was published for data to 1966 by province or region. Subsequent editions were published annually or biennially in one publication for Canada. Commencing with the 1979 publication, data are presented in the International System of Units (SI) and future editions will be published biennially. Gauging stations are listed by province or territory, in upstream to downstream order. Coloured maps showing the locations of both active and the discontinued stations were included in the first and second editions and were provided in a separate Hydrometric Map Supplement to the 1972 and the 1977 editions. The latest editions of the Reference Index and the Hydrometric Map Supplement supersede all previous editions.

La première édition de l'*Index de référence des données sur les eaux de surface* comprenait les données disponibles jusqu'en 1966, de chaque province ou région. Les éditions subséquentes étaient publiées annuellement ou tous les deux ans en une seule publication pour tout le Canada. À partir de 1979, les données sont fournies dans le Système international d'unités (SI) et les éditions subséquentes vont paraître tous les deux ans. Les stations de jaugeage sont présentées par province ou territoire et placées dans l'ordre de leur position, d'amont en aval. Des cartes en couleurs, qui indiquent l'emplacement des stations hydrométriques en service, y compris celles qui ne le sont plus, ont paru dans les première et deuxième éditions ainsi que dans le *Supplément de cartes hydrométriques* de 1972 et de 1977. L'édition la plus récente de l'*Index de référence* et celle du *Supplément de cartes hydrométriques* annulent les éditions antérieures.

The first edition of a publication series titled *Historical Streamflow Summary* was produced for data to 1970. Subsequent editions have been published every three years. This publication series contains a summary of historical monthly and annual mean discharges and annual extremes for the entire period of record for all stations where streamflow data have been collected during the history of the Water Survey of Canada. Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). Editions subsequent to 1982 will be published every two years. The latest edition supersedes all previous editions, since it contains any corrections or additions since the last publication.

La première édition d'une série de publications intitulée *Sommaire chronologique de l'écoulement* renfermait les données disponibles jusqu'en 1970. Les éditions subséquentes étaient publiées tous les trois ans. Cette série de publications renferme un résumé des moyennes mensuelles et annuelles des débits ainsi que les débits extrêmes annuels pour toute la période d'enregistrement et pour toutes les stations où des données de débit sont recueillies par la Division des relevés hydrologiques du Canada. Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Les éditions subséquentes à 1982 vont paraître tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

The first edition of a publication series titled *Historical Water Levels Summary* was produced for data to 1976. This publication series contains a summary of historical monthly and annual mean water levels and annual extremes for the period of record for all stations on lakes or reservoirs where water level data have been collected during the history of the Water Survey of Canada. It also contains a summary of water level data for all stations on rivers where "water levels only" were collected or for certain stations on rivers where streamflow data are collected, but the historical water level information is considered to be of sufficient demand to warrant inclusion in the publication (daily water levels for stations where streamflow data are collected are not normally published in the annual Surface Water Data publications). Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). Editions subsequent to 1983 will be published every two years. The latest edition supersedes all previous editions, since it contains any corrections or additions since the last publication.

La première édition d'une série de publications intitulée *Sommaire chronologique des niveaux d'eau* comprenait les données disponibles jusqu'en 1976. Cette série de publications contient un résumé des niveaux moyens mensuels et annuels ainsi que des niveaux extrêmes annuels pour la période d'enregistrement pour toutes les stations de lacs ou de réservoirs où des données sur les niveaux d'eau sont recueillies par la Division des relevés hydrologiques du Canada. Elle renferme également un résumé des niveaux d'eau pour toutes les stations de rivières effectuant «uniquement» des relevés de niveaux d'eau ou pour certaines stations de rivières où des données de débit sont recueillies de même que des données sur les niveaux d'eau qui peuvent répondre aux besoins des utilisateurs (en général, les niveaux d'eau quotidiens de stations effectuant des relevés de débit ne sont pas publiées dans les publications annuelles des données sur les eaux de surface). Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Les éditions subséquentes à 1983 vont paraître tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Water Resources Paper series containing sediment data incorporated a selection of these data and also data for part of the year ending September 30, 1961, at stations established for the continuing program. The second issue was a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* have been published annually. The sediment data since 1978 have been presented entirely in the International System of Units (SI).

De 1948 à 1960, on a recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenant des données sur les sédiments a paru dans la série intitulée *Water Resources Paper*; elle présentait un choix de ces données ainsi que des données recueillies en 1961 avant le 30 septembre à des stations établies pour la réalisation du programme permanent. La deuxième publication a porté sur les données recueillies dans le cadre du programme au cours des années hydrologiques 1962 et 1963. Par la suite, les données ont été publiées annuellement sous le titre *Données sur les sédiments - rivières canadiennes*. Depuis 1978, les données sont exprimées en unités du Système international (SI).

Commencing with 1984, the *Sediment Data* are presented and published in a new format wherein Canada is divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island, which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province or territories covered and the year in which the data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations in Canada where sediment data were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations also listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published biennially. The latest edition supersedes all previous editions because it contains any corrections or additions since the last publication.

The first edition of a new publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). This publication has been discontinued, as much of the information is now included in the new annual *Sediment Data* publication.

METHOD OF TABULATION OF SURFACE WATER DATA

For gauging stations where a systematic record of water level or discharge was obtained during the year under review, the following are given where available:

1. Table of daily water level or discharge;
2. Summary of monthly and annual data;
3. Descriptive information.

1. *The table of daily water level* or *discharge* gives the daily water level in metres or the daily discharge in cubic metres per second at the gauging station.

The following standard symbols are used opposite the daily stage or discharge to which they apply:

A – Manual Gauge – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge. This symbol is used during open-water periods only.

B – Ice Conditions – indicates that for a gauging station where discharge data are obtained the presence of ice has affected the stage-discharge relationship.

E – Estimated – indicates any estimated data. It indicates that the value was determined by some indirect method such as interpolation, extrapolation, estimation from a graph of observed readings, comparison with other streams or by comparison with meteorological data.

En 1984, la présentation des données a été modifiée. Le Canada a été divisé en huit régions, une région pour chaque province, sauf le Nouveau-Brunswick, Terre-Neuve, la Nouvelle-Écosse et l'Île-du-Prince-Édouard qui, ensemble, forment la région des provinces de l'Atlantique, et les Territoires du Yukon et du Nord-Ouest, qui forment une autre région. Les publications sont nommées selon la région couverte et l'année des données (année civile). Ces publications sont annuelles. Les stations y sont présentées par ordre alphabétique.

Un *Index de référence des données sur les sédiments* est publié. La première édition portait sur les données disponibles jusqu'en 1972. Les emplacements où des données sur les sédiments ont été recueillies au Canada par la Division des relevés hydrologiques y sont présentés sous forme de tableau. L'*Index* est subdivisé selon l'ordre alphabétique par province ou territoire, et les stations de mesure des sédiments sont classées par ordre alphabétique. À partir de 1978, les données sont exprimées en unités du Système international (SI). L'*Index* est publié tous les deux ans; l'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour effectuées depuis la dernière parution.

Une autre série de publications a porté le titre *Sommaire chronologique des données sur les sédiments de rivières canadiennes*. La première édition renfermait les données disponibles jusqu'en 1974. Cette série présentait un résumé donnant les moyennes mensuelles et annuelles historiques du débit des sédiments en suspension, les valeurs annuelles extrêmes de la concentration journalière et du débit journalier des sédiments en suspension et le débit annuel total des sédiments en suspension. À partir de 1978, les données ont été présentées en unités du Système international (SI). Cette série a été abandonnée, car une bonne partie de l'information est maintenant contenue dans la nouvelle publication annuelle intitulée *Données sur les sédiments*.

PRÉSENTATION SOUS FORME DE TABLEAUX DES DONNÉES SUR LES EAUX DE SURFACE

Pour les stations de jaugeage où on a effectué, au cours de l'année étudiée, un relevé systématique du débit ou du niveau, les données suivantes sont présentées, pour autant qu'elles soient disponibles:

1. un tableau du niveau ou du débit quotidien;
2. un extrait des données mensuelles et annuelles;
3. des renseignements descriptifs.

1. *Le tableau du niveau* ou *du débit quotidien* donne la hauteur des eaux, en mètres ou le débit, en mètres cubes par seconde, mesuré à la station de jaugeage.

Les symboles normalisés donnés ci-après sont inscrits à côté des valeurs auxquelles ils se rapportent:

A – Jauge manuelle – indique qu'on a effectué à une station de jaugeage dotée d'une jauge enregistreuse au moins une observation par jour à l'aide d'une jauge manuelle et qu'on s'en est servi comme moyenne pour la journée en question. Le symbole n'est employé qu'au cours de périodes d'eau libre.

B – Glaces – indique, pour les données portant sur le débit, que la présence de glaces à la station de jaugeage a faussé la relation hauteur-débit.

E – Estimatives – indique une donnée estimative, c'est-à-dire qu'on a déterminé la valeur de façon indirecte, par exemple par interpolation, extrapolation, à l'aide de graphique, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

2. *A summary of monthly and annual data* is given below the table of daily data.

For stations where only water level data are obtained, both a monthly and annual summary are given.

The monthly summary gives:
(a) the mean water level in metres for complete months;
(b) the maximum and minimum daily water level in metres.

The summary for the year gives:
(a) the mean water level in metres for complete years;
(b) the maximum and minimum daily water levels and their dates of first occurrence where applicable;
(c) the maximum instantaneous water level and the time of occurrence where available.

For stations where discharge data are collected, both a monthly and annual summary are given.

The monthly summary gives:
(a) the total of the daily discharge values for complete months;
(b) the mean discharge in cubic metres per second;
(c) the total discharge in cubic decametres;
(d) the maximum and minimum daily discharges in cubic metres per second.

The summary for the year or period gives:
(a) the mean discharge in cubic metres per second;
(b) the total discharge in cubic decametres;
(c) the maximum and minimum daily discharges and their dates of first occurrence;
(d) the maximum instantaneous discharge and the time of occurrence, where available.

3. *The descriptive information* about the gauging station is also given below the table of daily data and will indicate the following where applicable:

International Gauging Stations – on waters adjacent to the international boundary, certain gauging stations have been designated as "International" and records are approved jointly. Differences between figures published herein and corresponding figures in United States Water Supply Papers are due to variations in automated data processing techniques.

Type of Gauge – refers to the installation or method used to obtain water level or discharge data:

(a) Manual – a non-recording type of gauge from which observations of stage normally are obtained once daily.
(b) Recording – a water-stage recorder from which continuous water levels are obtained on an analog chart. For most International Gauging Stations located in the United States, water level records are obtained utilizing a digital recorder.
(c) Power Plant Rating – this indicates that records were obtained using the latest available rating of the Power Plant.

2. *Un extrait des données mensuelles et annuelles* est donné au-dessous du tableau des données quotidiennes.

Les extraits mensuels et annuels sont présentés dans le cas des stations où on n'a mesuré que le niveau.

L'extrait mensuel donne:
(a) le niveau moyen en mètres pour le mois entier, et
(b) les niveaux quotidiens maximal et minimal en mètres.

L'extrait annuel donne:
(a) le niveau moyen en mètres pour l'année entière;
(b) les niveaux quotidiens maximal et minimal ainsi que les dates de leur première observation, s'il y a lieu, et
(c) le niveau maximal instantané et l'heure de l'observation, s'il y a lieu.

Les extraits mensuels et annuels sont présentés dans le cas des stations où on n'a mesuré que le débit.

L'extrait mensuel donne:
(a) le total des valeurs quotidiennes du débit, pour le mois entier;
(b) le débit moyen en mètres cubes par seconde;
(c) le débit total en décamètres cubes, et
(d) les débits quotidiens maximal et minimal en mètres cubes par seconde.

L'extrait annuel ou périodique donne:
(a) le débit moyen en mètres cubes par seconde;
(b) le débit total en décamètres cubes;
(c) les débits quotidiens maximal et minimal ainsi que les dates de première observation, s'il y a lieu, et
(d) le débit maximal instantané et l'heure de l'observation, s'il y a lieu.

3. *Les renseignements descriptifs* sur les stations de jaugeage sont également présentés sous le tableau des données quotidiennes et apportent les précisions qui suivent, s'il y a lieu:

Stations internationales de jaugeage (International Gauging Stations) – Dans les eaux contiguës aux frontières, on a désigné certaines stations comme «internationales», et les données prélevées sont approuvées par les pays concernés. Les différences entre les chiffres publiés dans la présente publication et les *United States Water Supply Papers* proviennent de variantes dans les techniques de traitement automatique des données.

Type de jauge (Type of Gauge) – Il s'agit des jauges ou des méthodes de jaugeage utilisées pour obtenir les données sur le niveau et le débit d'un cours d'eau:

(a) Manuelle (Manual) – indique qu'un appareil non enregistreur sert à obtenir une fois par jour les données sur le niveau et le débit d'un cours d'eau.
(b) Enregistreuse (Recording) – indique qu'un limnigraphe permet de mesurer de façon continue le niveau des eaux tracé sur une carte analogique. La plupart des stations internationales de jaugeage des États-Unis obtiennent les données sur le niveau des eaux à l'aide d'un enregistreur numérique.
(c) Régime des stations hydrauliques (Power Plant Rating) – indique qu'on a obtenu les données grâce aux valeurs les plus récentes des régimes mesurés dans les stations hydrauliques.

Location – the latitude and longitude co-ordinates of the location of the gauge are given. For stations where the gauge is located an appreciable distance from the discharge measurement section, these co-ordinates give the location of the discharge measurement section.

Drainage Area – this is the latest available drainage area and refers to that area enclosed by a topographic divide such that direct surface runoff from precipitation would drain by gravity into the stream upstream from the location of the station. For a gauging station on a lake, this refers to the total drainage area at the outlet of the lake.

Contributed Data – if data were supplied in their entirety by an outside agency, the name of the co-operating agency is given.

Natural Flow or *Regulated* – where the flow is known to be natural, this is indicated. The flow of water in many river systems is affected by upstream regulation. In some cases, the extent of this regulation is not known and therefore is not indicated. However, where the regulation is known to be "appreciable", this is indicated as well as the year that the regulation began, if known.

Gauge Datum – for stations where only water level data are available, the name of the datum, to which water levels are referred, is given as well as an equation to convert to another datum if applicable. Detailed information on the description of the bench marks to which water levels are referred is available from the appropriate Regional Chief.

Remarks – unusual conditions which occur at a station are explained.

REVISIONS

A number of corrections or revisions have been made to previously published data. Many of these were required because of typographical or computational errors which were exposed when daily discharges were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data presently underway, for example, these revisions may have been justified because a more reliable stage-discharge relationship had been developed.

Revisions to daily discharges or daily water levels are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. The Historical Water Levels Summary publications contain revisions to monthly and annual mean water levels, and annual extremes of water level. Recent revisions, corrections or additions made to the historical discharges and water levels are indicated by an "R" symbol in the summary publications. This "R" symbol is deleted from the data bank after publication of the summaries. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

Emplacement (Location) – La latitude et la longitude de la station de jaugeage sont indiquées. Dans les cas où l'équipement de mesure est situé à un endroit éloigné de la section où le jaugeage est effectué, on indique les coordonnées de cette section.

Superficie du bassin versant (Drainage Area) – Il s'agit de la superficie du bassin versant déterminée d'après les cartes les plus récentes et désigne la zone délimitée par une ligne de partage des eaux de sorte que l'écoulement d'averse est entraîné par gravité vers le cours d'eau en amont de la station. S'il s'agit d'une station située sur un lac, elle représente la superficie totale jusqu'à l'émissaire du lac.

Données fournies (Contributed Data) – Nom de l'organisme extérieur qui a fourni les données.

Débit naturel ou *régularisé* (Natural Flow or Regulated) – Un débit reconnu comme naturel est indiqué comme tel. Le débit de plusieurs réseaux hydrographiques est modifié par une régularisation qui est effectuée en amont. Il arrive parfois que l'importance de cette régularisation ne soit pas connue, et elle n'est donc pas indiquée. Cependent, quand on sait que la régularisation est d'une certaine importance, on l'indique ainsi que l'année où elle a débuté (si elle est connue).

Plan de référence des jauges (Gauge Datum) – Pour les stations dans lesquelles on ne mesure que le niveau de l'eau, on indique le plan de référence de la jauge en question et l'équation permettant, au besoin, de convertir ce plan en un autre plan. En s'adressant au chef régional concerné, on peut obtenir des renseignements plus précis au sujet des niveaux de référence auxquels correspondent les niveaux mesurés.

Remarques (Remarks) – Les conditions inhabituelles qui prévalent à une station sont expliquées.

RÉVISIONS

On a corrigé ou révisé beaucoup de données déjà publiées. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calculs lorsqu'on a enregistré les débits quotidiens sur rubans magnétiques et qu'on a recalculé à l'aide d'ordinateurs les moyennes mensuelles. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de données de base au cours de la révision rétrospective systématique des données de débit qu'on est à faire en ce moment. Ainsi, on peut justifier des corrections, par le fait qu'on ait trouvé une relation hauteur-débit plus sûre.

Les corrections apportées aux débits quotidiens ou aux niveaux d'eau quotidiens ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont identifiées dans l'*Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données sur les moyennes mensuelles et annuelles des débits et sur les extrêmes annuels des débits qu'on a révisées. Les publications intitulées *Sommaire chronologique des niveaux d'eau* renferment les révisions apportées aux niveaux moyens mensuels et annuels ainsi que les extrêmes annuels. Les révisions et corrections apportées récemment aux débits chronologiques et aux niveaux d'eau sont accompagnées du symbole «R» dans les publications sommaires. Ce symbole «R» est omis de la banque de données après la publication des sommaires. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

ACCURACY OF HYDROMETRIC DATA

The overall accuracy or the degree of reliability of hydrometric data referred to herein, depends upon

(1) The type of gauge, stability of gauge, accuracy of observation of stage and measurement of reference datum,

(2) The stability of the stage-discharge relationship; or if the control is unstable, the frequency and accuracy of discharge measurements, and

(3) The computation procedures and interpretation of records.

Because of all these variable factors, the number of significant figures used herein has been standardized for uniformity of presentation and does not reflect the degree of accuracy of the data. The Water Resources Branch standard for storing water level data is to three decimal points (0.001 m), although some contributing agencies provide data to two decimal points (0.01 m).

A measure of the reliability of the records can be made by an examination of the distribution of the symbols A, E and B (for discharge data).

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

EXACTITUDE DES DONNÉES HYDROMÉTRIQUES

La précision totale ou le degré d'exactitude des données hydrométriques dont on parle ici sont basés sur

(1) Le type de jauge, la stabilité de la gauge, la précision des observations sur les niveaux et de la mesure de la donnée de référence,

(2) La stabilité de la relation hauteur-débit ou, si l'élément régulateur est changeant, sur la fréquence et la précision des mesures de débits, et

(3) L'évaluation des procédés et l'interprétation des chiffres.

À cause de toutes les variables déjà mentionnées, on a normalisé pour des fins d'uniformité de présentation le nombre de chiffres significatifs, mais ceci ne réflète pas le degré d'exactitude des données. Dans la Direction des ressources en eau, les normes de cueillette des données sur le niveau des eaux sont de l'ordre de trois décimales (0.001 m), alors que certains organismes dans ce domaine n'exigent que deux décimales (0.01 m).

L'exactitude des données peut être appréciée par l'examen de la répartition des symboles A, E et B (pour les données de débits).

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas de petits cours d'eau ou de cours d'eau à crues très rapides.

ADAMS CREEK NEAR KINUSO - STATION NO. 07BJ004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.062B	1.27 B	2.40	1.07	0.372	0.129	1.15	0.088	0.235B	---	1
2	---	---	0.064B	1.50 B	2.41	1.05	0.347	0.113	0.966	0.100	---	---	2
3	---	---	0.066B	1.72 B	2.44	0.990	1.43	0.099	0.792	0.231	---	---	3
4	---	---	0.068B	1.52 B	2.38	0.964	1.69	0.092	0.647	0.372	---	---	4
5	---	---	0.070B	1.41 B	2.63	0.951	1.26	0.082	0.554	0.348	---	---	5
6	---	---	0.070B	1.29 B	2.81	0.973	0.929	0.072	0.548	0.322	---	---	6
7	---	---	0.070B	1.27 B	2.62	0.957	0.730	0.061	0.458	0.286	---	---	7
8	---	---	0.068B	0.750B	2.46	0.862	0.577	0.055	0.350	0.262	---	---	8
9	---	---	0.066B	0.665B	2.37	0.798	0.551	0.051	0.558	0.281	---	---	9
10	---	---	0.066B	0.675B	2.14	0.800	0.683	0.050	0.477	0.808	---	---	10
11	---	---	0.066B	0.680B	1.83	4.52	0.543	0.050	0.374	0.800	---	---	11
12	---	---	0.066B	0.705B	1.80	8.48	0.403	0.047	0.332	0.673	---	---	12
13	---	---	0.068B	0.760	1.67	10.2	0.389	0.043	0.308	0.674	---	---	13
14	---	---	0.071B	0.892B	1.68	4.88	0.316	0.041	0.262	0.771	---	---	14
15	---	---	0.076B	0.976B	1.52	3.07	0.263	0.041	0.231	0.600B	---	---	15
16	---	---	0.079B	0.940B	1.43	2.04	0.334	0.042	0.230	0.410B	---	---	16
17	---	---	0.081B	1.12 B	1.38	1.47	1.14	0.048	0.227	0.460B	---	---	17
18	---	---	0.079B	2.90	1.35	1.21	1.26	0.050	0.208	0.460B	---	---	18
19	---	---	0.076B	3.73	1.57	1.06	1.16	0.050	0.195	0.486	---	---	19
20	---	---	0.074B	4.88	2.78	0.895	1.08	0.048	0.195	0.402B	---	---	20
21	---	---	0.072B	4.53	3.59	0.754	0.891	0.043	0.154	0.440B	---	---	21
22	---	---	0.072B	4.59	2.50	0.661	0.739	0.311	0.147	0.486	---	---	22
23	---	---	0.076B	4.15	2.07	0.550	0.578	0.835	0.126	0.414	---	---	23
24	---	---	0.080B	5.90	1.98	0.463	0.495	0.725	0.109	0.420	---	---	24
25	---	---	0.090B	6.14	2.27	0.399	0.429	0.594	0.097	0.518	---	---	25
26	---	0.055B	0.120B	3.81	1.87	0.425	0.349	0.467	0.090	0.648	---	---	26
27	---	0.057B	0.166B	2.63	1.58	0.591	0.321	0.395	0.089	0.614	---	---	27
28	---	0.059B	0.259B	2.08	1.39	0.425	0.247	0.343	0.089	0.623	---	---	28
29	---		0.455B	1.74	1.28	0.363	0.206	0.313	0.090	0.440B	---	---	29
30	---		1.16 B	1.95	1.19	0.313	0.179	0.475	0.088	0.525B	---	---	30
31	---		1.28 B		1.13		0.150	1.47		0.455B		---	31
TOTAL	---	---	5.236	77.173	62.52	52.184	20.041	7.235	10.341	14.425	---	---	TOTAL
MEAN	---	---	0.169	2.24	2.02	1.74	0.647	0.233	0.345	0.465	---	---	MEAN
MAX	---	---	1.28	6.14	3.59	10.2	1.69	1.47	1.15	0.808	---	---	MAX
MIN	---	---	0.062	0.665	1.13	0.313	0.150	0.041	0.088	0.088	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.976
MAXIMUM DAILY, 10.2 ON JUN 13
MINIMUM DAILY, 0.041 ON AUG 14
MAXIMUM INSTANTANEOUS,
13.7 AT 02:30 MST ON JUN 13

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 13 05 N
LONG 115 20 04 W
DRAINAGE AREA, 138 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 730
FEB	---	AUG	625
MAR	452	SEP	893
APR	5 800	OCT	1 250
MAY	5 400	NOV	---
JUN	4 510	DEC	---

TOTAL DISCHARGE, 20 700 dam³

AETNA CREEK AT HIGHWAY NO. 501 - STATION NO. 05AE912

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.289	0.321	0.277	0.234	0.210	0.327	---	---	1
2	---	---	---	---	0.324	0.302	0.281	0.436	0.147	0.308	---	---	2
3	---	---	---	---	0.157	0.335	0.285	0.557	0.114	0.261	---	---	3
4	---	---	---	---	0.089	0.329	0.284	0.438	0.102	0.288	---	---	4
5	---	---	---	---	0.060	0.181	0.273	0.490	0.217	0.273	---	---	5
6	---	---	---	---	0.037	0.100	0.303	0.531	0.201	0.319	---	---	6
7	---	---	---	---	0.013	0.158	0.287	0.445	0.247	0.346	---	---	7
8	---	---	---	---	0.029	0.161	0.318	0.478	0.218	0.367	---	---	8
9	---	---	---	---	0.066	0.137	0.285	0.438	0.135	0.393	---	---	9
10	---	---	---	---	0.111	0.128	0.264	0.556	0.130	0.399	---	---	10
11	---	---	---	---	0.077	0.113	0.198	0.515	0.165	0.500	---	---	11
12	---	---	---	---	0.069	0.103	0.180	0.538	0.128	0.530	---	---	12
13	---	---	---	---	0.071	0.247	0.222	0.538	0.199	0.504	---	---	13
14	---	---	---	---	0.054	0.343	0.233	0.481	0.207	0.457	---	---	14
15	---	---	---	---	0.050	0.157	0.169	0.361	0.174	0.377	---	---	15
16	---	---	---	---	0.040	0.121	0.144	0.419	0.260	0.091	---	---	16
17	---	---	---	---	0.020	0.104	0.090	0.477	0.236	0	---	---	17
18	---	---	---	---	0.008	0.099	0.060	0.494	0.156	0	---	---	18
19	---	---	---	---	0.016	0.089	0.024	0.636	0.153	0	---	---	19
20	---	---	---	---	0.063	0.131	0.392	0.639	0.220	0	---	---	20
21	---	---	---	---	0.061	0.170	0.244	0.675	0.243	0	---	---	21
22	---	---	---	---	0.026	0.168	0.343	0.611	0.267	0	---	---	22
23	---	---	---	---	0	0.151	0.343	0.578	0.253	0	---	---	23
24	---	---	---	---	0.059	0.151	0.356	0.635	0.245	0	---	---	24
25	---	---	---	0 A	0.355	0.149	0.442	0.349	0.184	0	---	---	25
26	---	---	---	0.027	0.259	0.143	0.360	0.274	0.218	0	---	---	26
27	---	---	---	0.068	0.300	0.235	0.363	0.280	0.209	0	---	---	27
28	---	---	---	0.090	0.230	0.285	0.403	0.396	0.238	0	---	---	28
29	---	---	---	0.071	1.60	0.295	0.622	0.489	0.327	0	---	---	29
30	---		---	0.108	1.10	0.297	0.466	0.374	0.356	0	---	---	30
31	---		---		0.375		0.251	0.362		0		---	31
TOTAL	---	---	---	---	6.008	5.703	8.842	14.724	6.159	5.740	---	---	TOTAL
MEAN	---	---	---	---	0.194	0.190	0.285	0.475	0.205	0.185	---	---	MEAN
MAX	---	---	---	---	1.60	0.343	0.622	0.675	0.356	0.530	---	---	MAX
MIN	---	---	---	---	0	0.089	0.024	0.234	0.102	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 1.60 ON MAY 29
MINIMUM DAILY, 0A ON APR 25

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 08 00 N
LONG 113 15 00 W
DRAINAGE AREA, 32.6 km²
A - MANUAL GAUGE

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	764
FEB	---	AUG	1 270
MAR	---	SEP	532
APR	---	OCT	496
MAY	519	NOV	---
JUN	493	DEC	---

ALBERTA POWER LIMITED COOLING POND OUTLET - STATION NO. 05CG007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0	0	0	1.34	0.507	1.36	1.36	0	---	---	1
2	---	---	0	0	0	1.34	0.592	1.36	1.37	0	---	---	2
3	---	---	0	0	0	1.34	0.575	1.35	1.37	0.631	---	---	3
4	---	---	0	0	0	1.32	0.576	1.34	1.35	1.16	---	---	4
5	---	---	0	0	0	1.31	0.583	1.33	1.34	1.14	---	---	5
6	---	---	0	0	0	1.30	0.586	1.32	1.34	1.13	---	---	6
7	---	---	0	0	0	1.28	0.589	1.31	0.915	1.12	---	---	7
8	---	---	0	0	0	1.27	0.589	1.31	0	0.285	---	---	8
9	---	---	0	0	0	1.25	0.588	1.31	0	0.138	---	---	9
10	---	---	0	0	0	1.25	0.593	1.31	0	0.054	---	---	10
11	---	---	0	0	0	1.23	0.593	1.31	0	0	---	---	11
12	---	---	0	0	0	1.22	0.588	1.31	0	0	---	---	12
13	---	---	0	0	0	1.21	0.590	1.31	0	0	---	---	13
14	---	---	0	0	0	1.21	0.587	1.31	0	0	---	---	14
15	---	---	0	0	0	1.18	0.584	1.29	0	0	---	---	15
16	---	---	0	0	0	1.18	0.583	1.29	0	0	---	---	16
17	---	---	0	0.177	0	1.17	0.627	1.30	0	0	---	---	17
18	---	---	0	0.891	0	1.17	1.40	1.30	0	0	---	---	18
19	---	---	0	1.60	0	1.16	1.40	1.30	0	0	---	---	19
20	---	---	0	1.38	0	1.15	1.40	1.29	0	0	---	---	20
21	---	---	0	1.35	0.745	0.921	1.39	1.29	0	0	---	---	21
22	---	OA	0	1.64	1.32	0.509	1.40	1.29	0	0	---	---	22
23	---	0	0	1.62	1.34	0.564	1.39	1.29	0	0	---	---	23
24	---	0	0	0.216	1.33	0.565	1.38	1.30	0	0	---	---	24
25	---	0	0	0	1.40	0.568	1.38	1.31	0	0	---	---	25
26	---	0	0	0	1.40	0.569	1.38	1.32	0	0	---	---	26
27	---	0	0	0	1.39	0.571	1.36	1.32	0	0	---	---	27
28	---	0	0	0	1.39	0.575	1.35	1.32	0	0	---	---	28
29	---		0	0	1.38	0.581	1.36	1.33	0	0	---	---	29
30	---		0	0	1.37	0.583	1.35	1.33	0	0 A	---	---	30
31	---		0		1.36		1.35	1.34		0 E		---	31
TOTAL	---	---	0	8.874	14.425	30.886	29.300	40.75	9.045	5.658	---	---	TOTAL
MEAN	---	---	0	0.296	0.465	1.03	0.945	1.31	0.302	0.183	---	---	MEAN
MAX	---	---	0	1.64	1.40	1.34	1.40	1.36	1.37	1.16	---	---	MAX
MIN	---	---	0	0	0	0.509	0.575	1.29	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.567
MAXIMUM DAILY, 1.64 ON APR 22
MINIMUM DAILY, 0 ON MAR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 25 33 N
LONG 111 48 00 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2 530
FEB	---	AUG	3 520
MAR	0	SEP	781
APR	767	OCT	489
MAY	1 250	NOV	---
JUN	2 670	DEC	---

TOTAL DISCHARGE, 12 000 dam³

ALKALI CREEK NEAR THE MOUTH - STATION NO. 05CK005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.011	0.004	0	0	0	0	0	---	---	1
2	---	---	0 B	0.009	0.004	0	0	0	0	0	---	---	2
3	---	---	0 B	0.009	0.003	0	0	0	0	0	---	---	3
4	---	---	0 B	0.009	0.002	0	0	0	0	0	---	---	4
5	---	---	0 B	0.007	0.001	0	0	0	0	0	---	---	5
6	---	---	0 B	0.004	0	0	0	0	0	0	---	---	6
7	---	---	0 B	0.002	0	0	0	0	0	0	---	---	7
8	---	---	0 B	0.001	0	0	0	0	0	0	---	---	8
9	---	---	0 B	0.002	0	0	0	0	0	0	---	---	9
10	---	---	0.009B	0.002	0	0	0	0	0	0	---	---	10
11	---	---	0.008B	0.001	0	0	0	0	0	0	---	---	11
12	---	---	0.006B	0	0	0	0	0	0	0	---	---	12
13	---	---	0.006B	0	0	0	0	0	0	0	---	---	13
14	---	---	0.003B	0.001	0	0	0	0	0	0	---	---	14
15	---	---	0.001B	0.003	0	0	0	0	0	0	---	---	15
16	---	---	0 B	0.004	0	0	0	0	0	0	---	---	16
17	---	---	0 B	0.005	0	0	0	0	0	0	---	---	17
18	---	---	0.001	0.005	0	0	0	0	0	0	---	---	18
19	---	---	0.006	0.005	0	0	0	0	0	0	---	---	19
20	---	---	0.008	0.005	0	0	0	0	0	0	---	---	20
21	---	---	0.007	0.005	0	0	0	0	0	0	---	---	21
22	---	---	0.004	0.005	0	0	0	0	0	0	---	---	22
23	---	---	0	0.005	0	0	0	0	0	0	---	---	23
24	---	---	0	0.005	0	0	0	0	0	0	---	---	24
25	---	---	0	0.004	0	0	0	0	0	0	---	---	25
26	---	---	0	0.003	0	0	0	0	0	0	---	---	26
27	---	OB	0	0.003	0	0	0	0	0	0	---	---	27
28	---	OB	0.003	0.005	0	0	0	0	0	0	---	---	28
29	---		0.009	0.005	0	0	0	0	0	0	---	---	29
30	---		0.011	0.005	0	0	0	0	0	0	---	---	30
31	---		0.012		0		0	0		0		---	31
TOTAL	---	---	0.094	0.130	0.014	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.003	0.004	0.001	0	0	0	0	0	---	---	MEAN
MAX	---	---	0.012	0.011	0.004	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.001
MAXIMUM DAILY, 0.012 ON MAR 31
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
0.013B AT 15:50 MST ON MAR 10

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 53 54 N
LONG 110 30 30 W
DRAINAGE AREA, 590 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	8.12	SEP	0
APR	11.2	OCT	0
MAY	1.21	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 20.5 dam³

AMISK CREEK NEAR SHOWTS - STATION NO. 05EB016

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	2.00 B	0.015	0	0	0.130	0.038	0	0.001A	---	1
2	---	---	0 B	2.10 B	0.055	0	0	0.084	0.037	0	---	---	2
3	---	---	0 B	1.45	0.053	0	0.319	0.081	0.029	0	---	---	3
4	---	---	0.003B	1.17	0.055	0	2.97	0.080	0.018	0	---	---	4
5	---	---	0.010B	0.950	0.058	0	5.36	0.070	0.007	0	---	---	5
6	---	---	0.025B	0.794	0.049	0	6.46	0.060	0	0	---	---	6
7	---	---	0.050B	0.642	0.045	0	8.50	0.050	0	0	---	---	7
8	---	---	0.075B	0.531	0.041	0	10.7	0.041	0	0	---	---	8
9	---	---	0.065B	0.407	0.041	0	8.85	0.034	0	0	---	---	9
10	---	---	0.060B	0.259	0.040	0	6.54	0.024	0	0	---	---	10
11	---	---	0.050B	0.227	0.032	0	4.62	0.014	0	0	---	---	11
12	---	---	0.035B	0.220	0.028	0	3.16	0.003	0	0	---	---	12
13	---	---	0.024B	0.155	0.021	0	2.24	0	0	0	---	---	13
14	---	---	0.050B	0.098	0.020	0	1.67	0	0	0	---	---	14
15	---	---	0.100B	0.078	0.017	0	1.20	0	0	0	---	---	15
16	---	---	0.300B	0.073	0.013	0	0.907	0.001	0	0	---	---	16
17	---	---	0.500B	0.067	0.009	0	0.815	0	0	0	---	---	17
18	---	---	0.800B	0.065	0.003	0	0.711	0.006	0	0	---	---	18
19	---	---	2.63 B	0.047	0.062	0	0.611	0.010	0	0	---	---	19
20	---	---	4.17 B	0.013	0.017	0	0.541	0.006	0	0	---	---	20
21	---	---	3.00 B	0.004	0	0	0.469	0.008	0	0	---	---	21
22	---	---	1.40 B	0.032	0	0	0.413	0.011	0	0	---	---	22
23	---	---	0.500B	0.049	0	0	0.336	0.012	0	0	---	---	23
24	---	---	0.525B	0.040	0	0	0.295	0.012	0	0	---	---	24
25	---	---	0.600B	0.025	0	0	0.325	0.011	0	0.098	---	---	25
26	---	---	0.700B	0.016	0.038	0	0.330	0.010	0	0.019	---	---	26
27	---	OB	0.796B	0.010	0.036	0	0.371	0.008	0	0.015	---	---	27
28	---	OB	0.950B	0.009	0	0	0.342	0.005	0	0.012	---	---	28
29	---		1.20 B	0.013	0	0	0.274	0.003	0	0.009	---	---	29
30	---		1.60 B	0.015	0	0	0.220	0.002	0	0.007	---	---	30
31	---		1.80 B		0		0.180	0.026		0.005		---	31
TOTAL	---	---	22.018	11.559	0.748	0	69.729	0.803	0.129	0.165	---	---	TOTAL
MEAN	---	---	0.710	0.385	0.024	0	2.25	0.026	0.004	0.005	---	---	MEAN
MAX	---	---	4.17	2.10	0.062	0	10.7	0.130	0.038	0.098	---	---	MAX
MIN	---	---	0	0.004	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.429
MAXIMUM DAILY, 10.7 ON JUL 08
MINIMUM DAILY, OB ON MAR 01
MAXIMUM INSTANTANEOUS,
11.1 AT 09:13 MST ON JUL 08

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 18 35 N
LONG 112 33 10 W
DRAINAGE AREA, 377 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	6 020
FEB	---	AUG	69.4
MAR	1 900	SEP	11.1
APR	999	OCT	14.3
MAY	64.6	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 9 080 dam³

AMISK RIVER AT HIGHWAY NO. 36 - STATION NO. 06AA002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	3.50 B	0.660	0.294	0.021	0.009	0.039	0.004	OB	---	1
2	---	---	0 B	2.90 B	0.554	0.136	0.024	0.005	0.038	0.003	---	---	2
3	---	---	0 B	2.35 B	0.498	0.105	0.257	0.002	0.038	0.002	---	---	3
4	---	---	0 B	2.00 B	0.469	0.108	1.08	0.001	0.038	0.001	---	---	4
5	---	---	0 B	1.79 B	0.478	0.133	1.31	0.001	0.037	0.001	---	---	5
6	---	---	0 B	1.62 B	0.528	0.095	1.99	0.001	0.032	0.001	---	---	6
7	---	---	0 B	1.47 B	0.750	0.081	4.09	0.002	0.029	0.001	---	---	7
8	---	---	0 B	1.32 B	0.998	0.065	4.20	0.001	0.029	0.002	---	---	8
9	---	---	0 B	1.17 B	0.926	0.056	3.77	0.002	0.030	0.002	---	---	9
10	---	---	0 B	1.02 B	0.832	0.058	3.25	0.001	0.024	0.002	---	---	10
11	---	---	0 B	0.900B	0.802	0.058	2.85	0.003	0.020	0.002A	---	---	11
12	---	---	0 B	0.800B	0.773	0.049	2.47	0.010	0.031	0.002E	---	---	12
13	---	---	0 B	0.700B	0.794	0.057	1.87	0.010	0.027	0.002E	---	---	13
14	---	---	0 B	0.570B	0.758	0.058	1.51	0.388	0.026	0.002E	---	---	14
15	---	---	0 B	0.520B	0.710	0.053	1.25	0.806	0.024	0.001E	---	---	15
16	---	---	0 B	0.480B	0.651	0.049	1.03	0.317	0.021	0.001E	---	---	16
17	---	---	0 B	0.450B	0.595	0.047	1.01	0.072	0.018	0.001E	---	---	17
18	---	---	0.001B	0.420B	0.555	0.049	1.15	0.009	0.015	0.001E	---	---	18
19	---	---	0.002B	0.398B	0.490	0.057	1.09	0.001	0.011	0.001E	---	---	19
20	---	---	0.001B	0.355	0.467	0.046	0.841	0.001	0.012	0.001E	---	---	20
21	---	---	0 B	0.282	0.401	0.049	0.551	0.001	0.011	0.001E	---	---	21
22	---	---	0 B	0.208	0.344	0.047	0.359	0.001	0.009	0.001E	---	---	22
23	---	---	0 B	0.278	0.298	0.045	0.234	0.001	0.008	0.001E	---	---	23
24	---	---	0 B	0.508	0.251	0.035	0.183	0.001	0.007	0.001E	---	---	24
25	---	---	0 B	0.667	0.236	0.024	0.137	0.002	0.005A	0 B	---	---	25
26	---	---	0 B	1.11	0.218	0.016	0.116	0.003	0.003	0 B	---	---	26
27	---	---	0.018B	0.922	0.220	0.021	0.098	0.004	0.003	0 B	---	---	27
28	---	---	0.035B	0.793	0.189	0.040	0.068	0.005	0.003	0 B	---	---	28
29	---	---	0.100B	0.753	0.155	0.060	0.049	0.005	0.002	0 B	---	---	29
30	---		0.300B	0.863	0.175	0.033	0.033	0.010	0.003	0 B	---	---	30
31	---		1.00 B		0.192		0.018	0.038		0 B		---	31
TOTAL	---	---	1.457	31.017	15.967	2.024	36.859	1.713	0.593	0.037	---	---	TOTAL
MEAN	---	---	0.047	1.03	0.515	0.068	1.19	0.055	0.020	0.001	---	---	MEAN
MAX	---	---	1.00	1.50	0.998	0.294	4.20	0.806	0.039	0.004	---	---	MAX
MIN	---	---	0	0.208	0.155	0.016	0.018	0.001	0.002	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.366
MAXIMUM DAILY, 4.20 ON JUL 08
MINIMUM DAILY, OB ON MAR 01
MAXIMUM INSTANTANEOUS,
4.49 AT 22:08 MST ON JUL 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 28 20 N
LONG 112 01 00 W
DRAINAGE AREA, 2 510 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 190
FEB	---	AUG	148
MAR	126	SEP	51.2
APR	2 680	OCT	3.20
MAY	1 380	NOV	---
JUN	175	DEC	---

TOTAL DISCHARGE, 7 740 dam³

ATHABASCA RIVER ABOVE JACKFISH CREEK - STATION NO. 07DD007

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	209.620	209.635	209.780	---	---	211.156	---	209.967	209.610	209.298	---	1
2	---	209.610	209.654	209.816	---	---	211.134	---	209.919	209.671	209.263	---	2
3	---	209.609	209.632	209.817	---	---	211.094	210.364A	209.904	209.680	209.259	---	3
4	---	209.634	209.613	209.805	---	---	211.043	210.479	209.879	209.624	209.281	---	4
5	---	209.631	209.660	209.828	---	---	210.946	210.452	209.914	209.558	209.294	---	5
6	---	209.619	209.680	209.875	---	210.757A	210.900	210.407	209.836	209.512	209.298	---	6
7	---	209.624	209.680	209.890	---	---	210.874	210.283	209.857	209.463	209.281	---	7
8	---	209.626	209.690	209.922	---	---	210.904	210.304	209.865	209.394	209.262	---	8
9	---	209.607	209.681	209.976	---	---	210.990	210.257A	209.893	209.376	209.258	---	9
10	209.706A	209.590	209.701	210.025	210.891A	---	211.097	---	209.930	209.512	---	---	10
11	209.693	209.608	209.709	210.075	---	---	211.166	---	209.887	209.499	---	209.406A	11
12	209.705	209.618	209.693	210.072	---	---	211.246A	---	209.861	209.440	---	209.406	12
13	209.689	209.590	209.722	210.097	---	---	---	---	209.760	209.440	---	209.411	13
14	209.667	209.582	209.728	210.097	---	---	---	---	209.737	209.413	---	209.431	14
15	209.636	209.563	209.731	210.075	---	---	---	---	209.687	209.382	---	209.458	15
16	209.623	209.574	209.730	210.045	---	---	---	---	209.678	209.413	---	209.502	16
17	209.626	209.574	209.764	210.096	---	---	---	---	209.750	209.393	---	209.539	17
18	209.645	209.559	209.760	210.146	---	---	---	---	209.664	209.379	---	209.561	18
19	209.642	209.599	209.744	210.175	---	---	---	---	209.710	209.372	---	209.584	19
20	209.629	209.633	209.732	210.213	---	---	---	209.948A	209.678	209.342	---	209.605	20
21	209.613	209.634	209.734	210.265	---	---	---	210.004	209.641	209.366	---	209.611	21
22	209.637	209.646	209.772	210.331	210.538A	211.533A	---	210.063	209.533	209.438	---	209.620	22
23	209.662	209.654	209.794	210.665	---	---	---	210.041	209.576	209.359	---	209.620	23
24	209.666	209.672	209.773	210.872	---	---	---	210.017	209.564	209.307	---	209.595	24
25	209.664	209.671	209.771	210.947	---	---	---	210.004	209.567	209.278	---	209.575	25
26	209.649	209.671	209.782	211.026	---	---	210.714A	210.001	209.678	209.314	---	209.566	26
27	209.642	209.664	209.781	211.045	---	---	---	209.978	209.716	209.330	---	209.553	27
28	209.633	209.644	209.778	211.149	---	---	---	209.960	209.656	209.482	---	209.526	28
29	209.634		209.787	211.211	---	211.192A	---	209.956	209.538	209.576	---	209.517	29
30	209.610		209.791	211.096	---	211.189	---	209.985	209.583	209.463	---	209.505	30
31	209.624		209.759		---		---	210.021		209.341		209.502	31
MEAN	---	209.619	209.725	210.281	---	---	---	---	209.748	209.443	---	---	MEAN
MAX	---	209.672	209.794	211.211	---	---	---	---	209.967	209.680	---	---	MAX
MIN	---	209.559	209.613	209.780	---	---	---	---	209.533	209.278	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 25 00 N
LONG 110 55 00 W

A - MANUAL GAUGE

NATURAL FLOW

DRAINAGE AREA,
159 000 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

ATHABASCA RIVER AT ATHABASCA - STATION NO. 07BE001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	160B	110 B	119B	175B	478	1 180	1 110	768	502	332	237	82.6B	1
2	173B	108 B	122B	193B	445	1 480	1 060	727	494	310	224	81.8B	2
3	170B	105 B	123B	207B	421	1 710A	1 040	719	538	287	213 B	86.0B	3
4	159B	103 B	124B	223B	410	1 630	1 120	737	605	282	194 B	95.1B	4
5	142B	102 B	123B	236B	406	1 550	1 530	707	574	276	184 B	113 B	5
6	127B	97.0B	123B	250B	405	1 530	1 940	663	514	263	178 B	127 B	6
7	123B	92.3B	122B	274B	408	1 560	2 070	619	473	266	140 B	137 B	7
8	120B	93.5B	123B	289B	412	1 500	2 090	590	441	262	144 B	146 B	8
9	118B	94.5B	125B	304B	426	1 380A	2 540	579	416	264	144 B	152 B	9
10	116B	99.0B	129B	330B	466	1 260A	2 690	604	401	272	120 B	158 B	10
11	115B	99.6B	132B	340B	508	1 170A	2 340	620	393	266	116 B	160 B	11
12	116B	103 B	134B	343B	491	1 140A	2 040	597	377	259	128 B	157 B	12
13	120B	110 B	136B	335B	465	1 240	1 810	575	379	252	155 B	158 B	13
14	122B	111 B	140B	330B	450	1 740	1 590	568	375	256	156 B	156 B	14
15	122B	113 B	143B	325B	438A	2 300	1 470	566	368	265	177 B	147 B	15
16	125B	112 B	144B	322B	435A	2 510	1 430	575	367	264	190 B	139 B	16
17	125B	112 B	141B	320B	438A	2 240	1 370	595	364	253	183 B	136 B	17
18	121B	113 B	138B	343B	441E	1 980	1 250	621	352	244	183 B	130 B	18
19	116B	111 B	140B	426B	444A	1 830A	1 150	633	357	233	174 B	124 B	19
20	112B	109 B	141B	413B	450A	1 710A	1 100	630	405	228	266 B	115 B	20
21	116B	107 B	146B	436B	461A	1 600A	1 030	617	528	230	228 B	103 B	21
22	119B	105 B	152B	424B	492A	1 490	957	579	519	221	199 B	98.2B	22
23	120B	105 B	157B	412	516A	1 390	882	558	460	214	180 B	98.2B	23
24	118B	104 B	162B	430	564A	1 310	811	551	427	210	154 B	101 B	24
25	114B	105 B	167B	471	686A	1 270	767	543	399	204	130 B	98.2B	25
26	111B	109 B	162B	521	728A	1 330	752	580	383	202	119 B	93.3B	26
27	107B	114 B	155B	533	732A	1 400	769	608	371	203	112 B	87.7B	27
28	104B	120 B	151B	550	880	1 360	792	581	359	206	112 B	85.0B	28
29	102B		150B	552	1 050	1 260	779	545	356	197	116 B	84.1B	29
30	109B		159B	517	1 110	1 180	781	524	342	207	92.0B	82.7B	30
31	110B		166B		1 130		790	511		235		82.3B	31
TOTAL	3 832	2 966.9	4 349	10 824	17 186	46 230	41 850	18 892	12 829	7 666	4 938.0	3 616.2	TOTAL
MEAN	124	106	140	361	554	1 540	1 350	609	428	247	165	117	MEAN
MAX	173	120	167	552	1 130	2 510	2 690	768	605	332	266	160	MAX
MIN	102	92.3	119	175	405	1 140	752	511	342	197	92.0	81.8	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 480
MAXIMUM DAILY, 2 690 ON JUL 10
MINIMUM DAILY, 81.8B ON DEC 02
MAXIMUM INSTANTANEOUS,
2 790 AT 01:50 MST ON JUL 10

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 43 20 N
LONG 113 17 10 W

DRAINAGE AREA, 74 600 km²

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	331 000	JUL	3 620 000
FEB	256 000	AUG	1 630 000
MAR	376 000	SEP	1 110 000
APR	935 000	OCT	662 000
MAY	1 480 000	NOV	427 000
JUN	3 990 000	DEC	312 000

TOTAL DISCHARGE, 15 100 000 dam³

ATHABASCA RIVER AT HINTON - STATION NO. 07AD002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	46.9B	25.8B	37.2B	29.4	61.6	792A	598	465	334	152	95.3	62.6B	1
2	46.4B	29.4B	36.5B	36.8	63.3	786A	633	452	304	139	88.6	53.5B	2
3	45.8B	29.2B	37.2B	38.7	65.4	733A	657	420	275	138	77.5B	48.7B	3
4	45.2B	38.5B	36.7B	35.9	66.7	694A	684	383	254	135	70.9B	53.1B	4
5	45.5B	39.9B	37.1B	37.0	72.5	629	632	365	235	140	78.7B	57.9B	5
6	44.8B	40.7B	37.9B	40.9	96.0	542	640	380	225	144	78.3B	61.3B	6
7	45.3B	40.2B	37.7B	42.2	142	472	897	406	222	133	65.3B	66.3B	7
8	46.9B	38.8B	38.4B	43.0	152	445	967	416	223	127	76.7B	68.1B	8
9	48.4B	40.9B	36.0B	41.0	132	437	847	396	231	119	76.4B	63.3B	9
10	46.2B	43.3B	38.5B	37.3	120	439	779	393	224	117	73.6B	58.2B	10
11	45.0B	45.4B	36.0B	36.2	112	459	738	390	222	121	69.4B	53.1B	11
12	44.0B	42.2B	35.8B	36.9	113	540	718	395	224	115	73.8B	53.4B	12
13	43.5B	34.4B	33.6B	39.6	110	582	760	405	230	109	84.7B	45.7B	13
14	44.0B	30.0B	31.8B	41.7	106	579	817	423	216	103	89.7B	42.5B	14
15	45.9B	28.0B	38.5B	41.9	102	533	760	440	199	99.4	83.6B	50.8B	15
16	44.0B	28.0B	39.5B	42.7	99.5	552	647	440	212	95.0	70.8B	58.5B	16
17	43.0B	29.8B	37.0B	43.6	104	622	617	437	282	92.1	62.9B	58.8B	17
18	43.5B	35.0B	39.1B	45.7	115	671	575	423	331	94.0	60.9B	46.9B	18
19	44.0B	37.8B	40.6B	49.9	126	681	511	387	282	89.8	52.7B	32.0B	19
20	44.5B	36.8B	40.0B	55.9	137	674	468	364	249	89.0	47.0B	30.2B	20
21	44.7B	36.3B	33.3B	60.4	154	650	424	358	229	87.2	40.4B	29.3B	21
22	44.9B	38.0B	32.7B	67.1	173	648	406	377	212	85.0	45.1B	31.9B	22
23	45.1B	38.0B	32.7B	71.7	173	711	407	411	207	83.0	47.2B	39.7B	23
24	41.6B	39.6B	31.7B	76.0	181	851	434	421	206	83.7	47.0B	43.1B	24
25	42.1B	41.4B	40.4B	80.0	220	907	456	372	215	78.8	47.5B	44.1B	25
26	36.9B	41.6B	35.1B	78.9	294	835	448	336	215	99.0	48.0B	45.2B	26
27	34.9B	38.5B	32.6B	75.9	385	749	462	312	207	135	48.1B	43.7B	27
28	34.6B	36.0B	33.7B	72.9	437	683	486	292	181	144	51.2B	39.7B	28
29	29.7B		35.2B	68.7	498 A	636	467	265	164	113	57.4B	37.9B	29
30	27.2B		35.7B	64.5	566 A	596	444	273	155	109	61.6B	36.8B	30
31	25.0B		29.8		687 A		449	313		101		39.0B	31
TOTAL	1 309.5	1 023.5	1 118.8	1 532.4	5 864.0	19 128	18 828	11 910	6 960	3 450.0	1 970.3	1 495.3	TOTAL
MEAN	42.2	36.6	36.1	51.1	189	638	607	384	232	111	65.7	48.2	MEAN
MAX	48.4	45.4	40.6	80.0	687	907	967	465	334	152	95.3	68.1	MAX
MIN	25.0	25.8	29.8	29.4	61.6	437	406	265	155	78.8	40.4	29.3	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 204
MAXIMUM DAILY, 967 ON JUL 08
MINIMUM DAILY, 25.0B ON JAN 31
MAXIMUM INSTANTANEOUS,
993 AT 02:35 MST ON JUL 08

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 24 39 N
LONG 117 35 11 W
DRAINAGE AREA, 9 780 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	113 000	JUL	1 630 000
FEB	88 400	AUG	1 030 000
MAR	96 700	SEP	601 000
APR	132 000	OCT	298 000
MAY	507 000	NOV	170 000
JUN	1 650 000	DEC	129 000

TOTAL DISCHARGE, 6 450 000 dam³

ATHABASCA RIVER BELOW MCMURRAY - STATION NO. 07DA001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	196B	186B	175B	265B	1 410	1 540	1 580	953	720	535	409B	227B	1
2	194B	181B	176B	293B	1 390	1 550	1 490	960	705	542	194B	210B	2
3	194B	179B	180B	309B	1 360	1 590	1 420	938	668	540	415B	202B	3
4	205B	181B	185B	330B	2 000	1 380	910	675	538	434B	197B	4
5	235B	162B	187B	349B	1 290	2 120	1 350	887	680	520	420B	192B	5
6	265B	181B	188B	376B	1 260	2 050	1 470	893	747	500	405B	181B	6
7	279B	179B	190B	400B	1 290	1 960	2 030	877	758	496	350B	174B	7
8	277B	177B	192B	413B	1 360	1 920	2 380	844	711	485	305B	175B	8
9	264B	172B	193B	419B	1 390	1 940	2 370	799	668	476	280B	179B	9
10	247B	172B	194B	425B	1 390	1 850	2 580	762	639	479	241B	184B	10
11	230B	168B	194B	442B	1 360	1 800	3 020	748	615	481	230B	205B	11
12	226B	164B	194B	457B	1 350	1 880	2 820	749	603	481	220B	229B	12
13	221B	162B	194B	467B	1 370	1 930	2 470	771	588	481	215B	244B	13
14	216B	161B	198B	487B	1 330	1 940	2 160	762	570	481	225B	255B	14
15	216B	163B	203B	505B	1 280	2 120	1 920	742	565	478	230B	266B	15
16	214B	165B	207B	502B	1 230	2 840	1 760	733	563	472	225B	268B	16
17	215B	167B	210B	493B	1 200	3 250	1 670	731	562	468	220B	264B	17
18	216B	172B	216B	494B	1 160	3 140	1 630	740	556	475	210B	259B	18
19	217B	175B	221B	500B	1 130	2 790	1 560	746	554	478	220B	248B	19
20	217B	177B	225B	530B	1 110	2 540	1 440	765	548	472	230B	241B	20
21	219B	178B	225B	700B	1 100	2 370	1 350	787	544	456	240B	216B	21
22	220B	178B	221B	839B	1 090	2 210	1 300	797	542	449	253B	206B	22
23	217B	178B	220B	839B	1 070	2 050	1 230	792	625	442	253B	193B	23
24	209B	178B	221B	936B	1 080	1 910	1 160	769	706	432	245B	183B	24
25	205B	177B	221B	1 210B	1 090	1 780	1 090	750	667	427	266B	176B	25
26	207B	177B	224B	1 310B	1 110	1 680	1 020	737	624	424	312B	168B	26
27	210B	175B	237B	1 340	1 180	1 640	977	724	597	412	291B	163B	27
28	209B	175B	246B	1 480	1 210	1 680	940	733	573	405B	271B	160B	28
29	203B		262B	1 450	1 190	1 720	940	765	560	402B	265B	162B	29
30	198B		276B	1 390	1 310	1 660	969	772	546	407B	250B	160B	30
31	191B		284B		1 480		961	744		423B		155B	31
TOTAL	6 832	4 880	6 559	19 970	38 900	61 450	50 437	24 680	18 693	14 558	8 524	6 344	TOTAL
MEAN	220	174	212	666	1 250	2 050	1 630	796	623	470	284	205	MEAN
MAX	279	186	284	1 480	1 480	3 250	3 020	960	758	542	434	268	MAX
MIN	191	161	175	285	1 070	1 540	940	724	542	402	210	155	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 717
MAXIMUM DAILY, 3 250 ON JUN 17
MINIMUM DAILY, 155B ON DEC 31
MAXIMUM INSTANTANEOUS,
3 310 AT 19:36 MST ON JUN 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 46 50 N
LONG 111 24 00 W
DRAINAGE AREA, 133 000 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	590 000	JUL	4 360 000
FEB	424 000	AUG	2 130 000
MAR	567 000	SEP	1 620 000
APR	1 730 000	OCT	1 260 000
MAY	3 360 000	NOV	736 000
JUN	5 310 000	DEC	548 000

TOTAL DISCHARGE, 22 600 000 dam³

ATHABASCA RIVER NEAR JASPER - STATION NO. 07AA002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	17.0 B	11.0 B	15.4B	13.4	23.9	347	347	275	151	65.4	37.4	21.0B	1
2	17.5 B	12.0 B	11.5B	14.8	25.3	310	346	247	133	66.2	40.6B	24.3B	2
3	17.2 B	12.5 B	11.4B	15.8	26.5	284	348	214	121	58.6	45.0B	27.0B	3
4	17.0 B	12.6 B	12.2B	15.6	28.0	269	304	203	111	60.2	39.4B	28.2B	4
5	17.0 B	12.1 B	12.4	15.7	35.3	218	271	220	107	71.1	33.5B	24.6B	5
6	16.9 B	11.4 B	12.0	16.4	61.3	190	350	256	107	60.6	25.4B	23.3B	6
7	17.0 B	10.8 B	11.8	16.9	70.0	186	444	270	111	54.5	29.8B	21.0B	7
8	17.0 B	10.3 B	11.8	16.4	59.3	184	385	246	117	51.4	31.7B	19.3B	8
9	17.1 B	9.79B	11.7	14.9	51.9	184	370	246	113	50.4	29.6B	19.0B	9
10	15.3 B	8.83B	11.4	13.8	47.4	199	365	243	114	52.3	30.5B	18.5B	10
11	13.0 B	8.60B	11.3	14.7	46.7	232	359	251	116	48.0	27.5B	18.4B	11
12	12.6 B	8.50B	11.2	15.9	47.5	210	417	264	120	45.5	37.4B	18.2B	12
13	14.7 B	8.40B	10.7	16.4	45.4	197	492	282	109	44.0	55.7B	18.1B	13
14	15.2 B	8.30B	10.7	17.1	43.1	180	454	304	94.8	42.0	52.5B	18.0B	14
15	13.6 B	8.30B	10.9	17.7	42.6	198	360	301	102	39.5	42.6B	18.7B	15
16	12.7 B	8.40B	10.9	17.9	44.3	235	376	305	123	38.9	38.2B	18.9B	16
17	11.6 B	8.50B	10.9	18.3	48.3	259	346	287	161	37.4	37.1B	18.3B	17
18	11.7 B	9.00B	10.9	20.0	54.2	276	282	246	122	37.4	33.9B	18.8B	18
19	11.9 B	10.0 B	11.2	23.3	59.1	279	259	225	108	36.9	32.6B	17.9B	19
20	13.5 B	13.0 B	11.3	26.4	63.5	274	221	226	98.1	35.4	31.0B	18.0B	20
21	12.7 B	13.4 B	10.8	30.1	73.1	273	211	245	87.9	34.5	30.5B	18.2B	21
22	12.3 B	14.9 B	10.5	32.0	73.7	319	217	284	88.3	34.4	30.5B	18.4B	22
23	11.9 B	16.3 B	10.1	32.9	78.9	432	243	280	93.9	33.1	25.9B	18.8B	23
24	11.3 B	16.9 B	10.1	33.9	96.1	471	268	215	107	32.6	20.0B	19.5B	24
25	10.6 B	15.1 B	10.5	33.8	119	437	255	175	110	39.0	21.0B	18.6B	25
26	10.2 B	14.6 B	10.7	31.8	163	391	266	159	103	68.8	25.0B	18.8B	26
27	10.1 B	17.0 B	10.9	30.0	193	354	301	142	85.6	53.5	26.6B	18.3B	27
28	10.1 B	16.3 B	10.8	27.1	219	327	282	129	77.9	49.3	26.0B	17.4B	28
29	9.77B		11.0	25.2	250	305	260	130	73.5	47.1	25.5B	20.0B	29
30	10.2 B		12.0	23.8	336	307	267	159	72.4	43.3	21.3B	19.3B	30
31	10.0 B		13.1		359		284	176		40.3		18.7B	31
TOTAL	419.47	326.82	352.1	642.0	2 884.4	8 327	9 950	7 205	3 238.4	1 471.6	983.7	616.3	TOTAL
MEAN	13.5	11.7	11.4	21.4	93.0	278	321	232	108	47.5	32.8	19.9	MEAN
MAX	17.8	17.0	15.4	33.9	359	471	492	305	161	71.1	55.7	28.2	MAX
MIN	9.77	8.30	10.1	13.4	23.9	180	211	129	72.4	32.8	20.0	17.4	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 99.8
MAXIMUM DAILY, 492 ON JUL 13
MINIMUM DAILY, 8.30B ON FEB 14
MAXIMUM INSTANTANEOUS,
514 AT 13:30 MST ON JUL 13

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 54 36 N
LONG 118 03 25 W
DRAINAGE AREA, 3 880 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	36 200	JUL	860 000
FEB	28 200	AUG	623 000
MAR	30 400	SEP	280 000
APR	55 500	OCT	127 000
MAY	249 000	NOV	85 000
JUN	719 000	DEC	53 200

TOTAL DISCHARGE, 3 150 000 dam³

ATHABASCA RIVER NEAR OLD FORT - STATION NO. 07DD011

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	211.661	211.948	---	213.527	214.010	212.688	212.221	---	---	212.024	1
2	---	---	211.649	211.994	214.143A	213.746	214.004	212.668	212.185	---	---	211.921	2
3	---	---	211.654	212.023	---	213.833	213.912	212.649	212.119	---	---	211.816	3
4	---	---	211.661	212.047	---	213.865	213.773	212.674	212.065	---	---	211.661	4
5	---	---	211.684	212.070	---	213.996	213.684	212.639	---	---	---	211.538	5
6	---	---	211.697	212.095	---	214.440	213.601	212.582	---	---	212.418A	---	6
7	---	---	211.721	---	---	214.603	213.553	212.494	---	---	213.829	211.393	7
8	212.251A	211.656A	211.742	---	214.021	214.533	213.779	212.489	---	---	213.599	211.156	8
9	212.599	---	211.761	---	214.161	214.432	214.430	212.484	---	---	213.429	211.320	9
10	212.301	---	211.768	---	214.258	214.401	214.835	212.440	---	---	213.404	211.284	10
11	212.273	---	211.776	---	214.315	214.428	214.926	212.351	---	---	213.414	211.258	11
12	212.233	---	211.798	---	214.263	214.366	215.158	212.280	---	---	213.322	211.253	12
13	212.174	---	211.811	---	214.172	214.418	215.421	212.222	---	---	213.192	211.269	13
14	212.133	---	211.824	---	214.087	214.596	215.344	212.206	---	---	213.067	211.306	14
15	212.093	---	211.837	---	214.048	214.703	215.058	212.221	---	---	212.944	211.384	15
16	212.076	---	211.833	---	213.981	214.750	214.736	212.227	---	---	212.812	211.464	16
17	212.066	---	211.840	---	213.844	215.014	214.422	212.199	---	---	212.630	211.536	17
18	212.052	---	211.855	---	213.738	215.323	214.182	212.158	---	---	212.453	211.587	18
19	212.051	---	211.869	---	213.643	215.796	214.018	212.136	---	---	212.370	211.618	19
20	212.056	---	211.874	---	213.551	215.810	213.934	212.148	---	---	212.319	---	20
21	212.050	---	211.894	---	213.525	215.621	213.816	212.167	---	---	212.270	---	21
22	212.050	---	211.904	---	213.461	215.420	213.645	212.203	---	---	212.189	---	22
23	212.054	---	211.926	---	213.397	215.207	213.477	212.267	---	---	212.098	---	23
24	212.051	---	211.927	---	213.349	214.988	213.354	212.294	---	---	212.041	---	24
25	212.034	---	211.906	---	213.332	214.760	213.234	212.286	---	---	212.091	---	25
26	---	---	211.900	---	213.321	214.535	213.098	212.237	---	---	212.132	---	26
27	---	---	211.892	---	213.329	214.331	212.973	212.186	---	---	212.124	---	27
28	---	---	211.886	---	213.356	214.144	212.842	212.157	---	---	212.076	---	28
29	---		211.893	---	213.416	214.046	212.751	212.124	---	---	212.061	---	29
30	---		211.900	---	213.446	214.015	212.682	212.122	---	---	212.074	---	30
31	---		211.920		213.428		212.655	212.181		---		---	31
MEAN	---	---	211.815	---	---	214.595	213.913	212.328	---	---	---	---	MEAN
MAX	---	---	211.927	---	---	215.810	215.421	212.688	---	---	---	---	MAX
MIN	---	---	211.649	---	---	213.527	212.655	212.122	---	---	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 215.810 ON JUN 20

MAXIMUM INSTANTANEOUS,
215.810 AT 12:44 MST ON JUN 20

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 22 20 N
LONG 111 31 18 W

A - MANUAL GAUGE

NATURAL FLOW

DRAINAGE AREA,
156 000 km²

ATHABASCA RIVER NEAR WINDFALL - STATION NO. 07AE001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	65.0B	70.0B	116	1 040	658	525	395	201	---	---	1
2	---	---	63.5B	66.0B	114	997	680	537	402	197	---	---	2
3	---	---	63.8B	72.0B	119	931	795	510	366	183	---	---	3
4	---	---	64.2B	82.0B	123	866	957	473	333	182	---	---	4
5	---	---	64.5B	90.8B	124	870	923	437	311	184	---	---	5
6	---	---	65.0B	94.2B	126	810	880	422	293	185	---	---	6
7	---	---	65.5B	87.8B	145	699	1 190	436	281	187	---	---	7
8	---	---	62.8B	90.0B	197	621	1 510	462	274	178	---	---	8
9	---	---	61.5B	76.0B	208	582	1 300	460	272	170	---	---	9
10	---	---	58.1B	68.4B	189	561	1 080	441	276	168	---	---	10
11	73.0B	---	55.2B	63.7B	175	584	967	437	271	164	---	---	11
12	---	---	57.1B	63.7B	169	798	886	432	271	169	---	---	12
13	---	---	54.2B	65.0B	171	1 070	859	438	273	163	---	---	13
14	---	---	54.4B	68.5B	175	1 060	887	449	277	155	---	---	14
15	---	---	51.7B	75.6B	174	933	890	468	262	146	---	---	15
16	---	---	50.1B	76.4B	170	814	802	491	249	139	---	---	16
17	---	---	61.0B	81.8B	167	812	719	491	242	134	---	---	17
18	---	---	64.7B	82.0B	174	843	699	489	377	129	---	---	18
19	---	---	63.0B	90.0B	189	840	647	468	411	133	---	---	19
20	---	49.8B	68.0B	100 B	208	820	596	429	396	123	---	---	20
21	---	---	70.4B	127	228	785	550	407	322	120	---	---	21
22	46.5B	---	59.7B	126	257	755	507	403	298	122	---	---	22
23	---	---	52.0B	131	278	752	487	424	277	116	---	---	23
24	---	---	51.0B	140	272	825	490	457	269	114	---	---	24
25	---	---	54.0B	153	294	920	526	454	264	121	---	---	25
26	---	63.4B	55.0B	157	369	916	542	414	270	111	---	---	26
27	---	---	58.9B	149	463	844	531	392	264	128	---	---	27
28	---	---	57.0B	119	525	780	551	375	250	166	---	---	28
29	---		56.0B	127	549	775	554	349	230	161	---	---	29
30	---		61.0B	120	603	690	532	325	212	149	---	---	30
31	---		66.0B		807		511	343		142A		---	31
TOTAL	---	---	1 858.3	2 932.9	7 888	24 543	23 706	13 634	8 887	4 740	---	---	TOTAL
MEAN	---	---	59.9	97.8	254	818	765	440	296	153	---	---	MEAN
MAX	---	---	70.4	157	807	1 070	1 510	531	411	201	---	---	MAX
MIN	---	---	50.1	63.7	114	561	487	325	212	111	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 360
MAXIMUM DAILY, 1 510 ON JUL 08
MINIMUM DAILY, 50.1B ON MAR 16
MAXIMUM INSTANTANEOUS,
1 540 AT 12:36 MST ON JUL 08

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 12 25 N
LONG 116 03 45 W
DRAINAGE AREA 19 600 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2 050 000
FEB	---	AUG	1 180 000
MAR	161 000	SEP	768 000
APR	253 000	OCT	410 000
MAY	682 000	NOV	---
JUN	2 120 000	DEC	---

TOTAL DISCHARGE, 7 620 000 dam³

ATIM CREEK NEAR SPRUCE GROVE - STATION NO. 05EA009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.492B	0.599	0.159	0.639	0.150	0.157	0.095E	---	---	1
2	---	---	---	0.463B	0.571	0.166	0.735	0.154	0.132	0.095E	---	---	2
3	---	---	---	0.425B	0.549	0.155	1.82	0.145	0.131	0.095E	---	---	3
4	---	---	---	0.384B	0.528	0.200	2.61	0.130	0.139	0.095E	---	---	4
5	---	---	---	0.344B	0.504	0.189	1.28	0.120	0.135	0.095E	---	---	5
6	---	---	---	0.316B	0.477	0.167	1.15	0.111	0.130	0.095E	---	---	6
7	---	---	---	0.282B	0.453	0.149	1.11	0.099	0.129	0.095E	---	---	7
8	---	---	---	0.258B	0.441	0.136	0.904	0.087	0.122	0.096E	---	---	8
9	---	---	---	0.232B	0.434	0.123	0.790	0.089	0.121	0.096E	---	---	9
10	---	---	---	0.215B	0.399	0.122	0.722	0.095	0.126	0.096E	---	---	10
11	---	---	---	0.202B	0.354	0.152	0.656	0.088	0.122	0.096E	---	---	11
12	---	---	---	0.209	0.326	0.172	0.599	0.087	0.123	0.096E	---	---	12
13	---	---	---	0.231	0.310	0.176	0.546	0.083	0.121	0.096E	---	---	13
14	---	---	---	0.240	0.294	0.152	0.482	0.088	0.118	0.096E	---	---	14
15	---	---	---	0.247	0.274	0.128	0.434	0.087	0.109	0.096E	---	---	15
16	---	---	0.394B	0.253	0.276	0.146	0.433	0.109	0.111	0.096E	---	---	16
17	---	---	0.377B	0.266	0.246	0.182	0.476	0.122	0.116	0.096E	---	---	17
18	---	---	0.372B	0.279	0.233	0.156	0.432	0.102	0.111	0.096E	---	---	18
19	---	---	0.412B	0.347	0.241	0.120	0.411	0.099	0.103	0.096	---	---	19
20	---	---	0.478B	0.413	0.335	0.124	0.367	0.098	0.099	0.098	---	---	20
21	---	---	0.463B	0.477	0.271	0.146	0.322	0.100	0.096	0.110	---	---	21
22	---	---	0.446B	0.545	0.262	0.171	0.277	0.101	0.095	0.104	---	---	22
23	---	---	0.430B	0.668	0.254	0.272	0.270	0.099	0.091	0.103	---	---	23
24	---	---	0.411B	1.34	0.334	0.252	0.252	0.098	0.092	0.103	---	---	24
25	---	---	0.388B	1.06	0.349	0.295	0.245	0.101	0.094	0.104	---	---	25
26	---	---	0.374B	0.884	0.304	0.461	0.237	0.104	0.095	0.103	---	---	26
27	---	---	0.402B	0.795	0.249	0.540	0.217	0.109	0.095E	0.131	---	---	27
28	---	---	0.432B	0.728	0.229	0.559	0.198	0.114	0.095E	0.111	---	---	28
29	---	---	0.495B	0.677	0.223	0.552	0.180	0.115	0.095E	0.101A	---	---	29
30	---		0.528B	0.635	0.189	0.584	0.157	0.120	0.095E	0.101E	---	---	30
31	---		0.531B		0.175		0.164	0.156		0.101E		---	31
TOTAL	---	---	---	13.907	10.683	6.906	21.115	3.360	3.398	3.087	---	---	TOTAL
MEAN	---	---	---	0.464	0.345	0.230	0.681	0.108	0.113	0.100	---	---	MEAN
MAX	---	---	---	1.34	0.599	0.584	3.82	0.156	0.157	0.131	---	---	MAX
MIN	---	---	---	0.202	0.175	0.120	0.157	0.083	0.091	0.095	---	---	MIN

SUMMARY FOR THE MONTHS APR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.292
MAXIMUM DAILY, 3.82 ON JUL 03
MINIMUM DAILY, 0.083 ON AUG 13
MAXIMUM INSTANTANEOUS,
6.99 AT 16:42 MST ON JUL 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 34 20 N
LONG 113 56 00 W
DRAINAGE AREA 315 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 820
FEB	---	AUG	290
MAR	---	SEP	294
APR	1 200	OCT	267
MAY	923	NOV	---
JUN	597	DEC	---

TOTAL DISCHARGE, 5 390 dam³

ATIMOSMI CREEK NEAR ELK POINT - STATION NO. 05ED002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.003B	2.32 B	0.335	0.007	0	0.006	0.003	0	---	---	1
2	---	---	0.003B	2.37 B	0.347	0.008	0	0.005	0.003	0	---	---	2
3	---	---	0.003B	3.45 B	0.316	0.007	0.005	0.004	0.002	0	---	---	3
4	---	---	0.004B	3.96 B	0.298	0.007	0.008	0.003	0.002	0	---	---	4
5	---	---	0.004B	5.07 B	0.270	0.007	0.005	0.002	0.001	0	---	---	5
6	---	---	0.005B	6.26 B	0.215	0.004	0.002	0.001	0.001	0	---	---	6
7	---	---	0.005B	6.06 B	0.213	0.002	0.003	0	0.002	0	---	---	7
8	---	---	0.005B	4.71 B	0.242	0.001	0.001	0	0.002	0	---	---	8
9	---	---	0.004B	3.76	0.213	0.001	0.001	0	0.003	0	---	---	9
10	---	---	0.003B	3.08	0.193	0.001	0.002	0	0.003	0.001	---	---	10
11	---	---	0.002B	2.39	0.158	0.002	0.001	0	0.003	0.001	---	---	11
12	---	---	0.002B	1.89	0.124	0.005	0	0	0.004	0.002	---	---	12
13	---	---	0.002B	1.41	0.105	0.006	0	0	0.004	0.002	---	---	13
14	---	---	0.001B	1.07	0.113	0.005	0	0	0.003	0.002	---	---	14
15	---	---	0.001B	0.815	0.100	0.003	0	0	0.003	0.002	---	---	15
16	---	---	0.001B	0.619	0.079	0.001	0	0	0.002	0.002	---	---	16
17	---	---	0.001B	0.460	0.060	0	0	0.001	0.002	0.001	---	---	17
18	---	---	0 B	0.324	0.043	0	0	0.002	0.002	0.001	---	---	18
19	---	---	0 B	0.230	0.041	0	0	0.002	0.002	0.001	---	---	19
20	---	---	0 B	0.149	0.031	0	0	0.002	0.002	0.001	---	---	20
21	---	---	0 B	0.119	0.018	0	0	0.001	0.002	0.001	---	---	21
22	---	---	0 B	0.145	0.012	0	0	0.001	0.002	0.001	---	---	22
23	---	---	0 B	0.198	0.014	0	0	0.001	0.002	0.001	---	---	23
24	---	---	0 B	0.223	0.012	0	0	0	0.002	0.001	---	---	24
25	---	---	0 B	0.309	0.011	0	0	0	0.001	0.001	---	---	25
26	---	---	0 B	0.359	0.012	0	0	0	0.001	0.001B	---	---	26
27	---	---	0 B	0.375	0.012	0	0	0	0.001	0.001B	---	---	27
28	---	---	0.001B	0.385	0.013	0	0.002	0	0.001	0.001B	---	---	28
29	---	---	0.010B	0.386	0.012	0	0.004	0	0	0.001B	---	---	29
30	---	---	0.780B	0.361	0.011	0	0.004	0	0	0.001B	---	---	30
31	---		1.67 B		0.008		0.005	0.003		0.001B		---	31
TOTAL	---	---	2.510	53.257	3.631	0.067	0.047	0.034	0.061	0.027	---	---	TOTAL
MEAN	---	---	0.081	1.78	0.117	0.002	0.002	0.001	0.002	0.001	---	---	MEAN
MAX	---	---	1.67	6.26	0.347	0.008	0.008	0.006	0.004	0.002	---	---	MAX
MIN	---	---	0	0.119	0.008	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.243
MAXIMUM DAILY, 6.26B ON APR 06
MINIMUM DAILY, 0B ON MAR 18
MAXIMUM INSTANTANEOUS, 7.29B AT 11:46 MST ON APR 05

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 53 10 N
LONG 110 55 10 W
DRAINAGE AREA, 364 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	4.06
FEB	---	AUG	2.94
MAR	217	SEP	5.27
APR	4 600	OCT	2.33
MAY	314	NOV	---
JUN	5.79	DEC	---

TOTAL DISCHARGE, 5 150 dam³

BABETTE CREEK NEAR COLINTON - STATION NO. 07CA008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.340B	0.033	0.004	0.001	0.001	0.001	0.001	---	---	1
2	---	---	0 B	0.380B	0.016	0.003	0.001	0.001	0.001	0.001	---	---	2
3	---	---	0 B	0.510B	0.010	0.003	0.008	0.001	0.001	0.001	---	---	3
4	---	---	0 B	0.580B	0.009	0.002	0.022	0.104	0.001	0.001	---	---	4
5	---	---	0 B	0.420B	0.007	0.002	0.456	0.101	0.001	0	---	---	5
6	---	---	0 B	0.355B	0.006	0.002	0.088	0.027	0.001	0	---	---	6
7	---	---	0.001B	0.283B	0.006	0.002	0.073	0.009	0.001	0	---	---	7
8	---	---	0.001B	0.146B	0.007	0.002	0.052	0.006	0.001	0	---	---	8
9	---	---	0.001B	0.072B	0.007	0.002	0.034	0.005	0.001	0	---	---	9
10	---	---	0.001B	0.052B	0.007	0.001	0.131	0.004	0.001	0	---	---	10
11	---	---	0.001B	0.047B	0.007	0.002	0.145	0.003	0.001	0	---	---	11
12	---	---	0.001B	0.050B	0.012	0.002	0.146	0.002	0.001	0	---	---	12
13	---	---	0.001B	0.053B	0.038	0.001	0.043	0.002	0.001	0	---	---	13
14	---	---	0.001B	0.062B	0.113	0.001	0.016	0.001	0.001	0	---	---	14
15	---	---	0.001B	0.065B	0.291	0.001	0.013	0.001	0.001	0	---	---	15
16	---	---	0.001B	0.054B	0.178	0.001	0.011	0.002	0.001	0	---	---	16
17	---	---	0.001B	0.032	0.117	0.001	0.012	0.002	0.001	0	---	---	17
18	---	---	0.001B	0.025	0.113	0.001	0.010	0.002	0.001	0	---	---	18
19	---	---	0.001B	0.033	0.085	0.001	0.008	0.002	0.001	0	---	---	19
20	---	---	0.001B	0.044	0.050	0.001	0.007	0.001	0.001	0	---	---	20
21	---	---	0.001B	0.043	0.026	0.001	0.005	0.001	0.001	0	---	---	21
22	---	---	0.001B	0.040	0.018	0.001	0.005	0.001	0.001	0	---	---	22
23	---	---	0.001B	0.025	0.013	0.001	0.004	0.001	0.001	0	---	---	23
24	---	---	0.001B	0.364	0.042	0.001	0.004	0.001	0.001	0	---	---	24
25	---	---	0.001B	0.540	0.025	0.001	0.003	0.001	0.001	0	---	---	25
26	---	---	0.001B	0.383	0.017	0.001	0.003	0.001	0.001	0	---	---	26
27	---	---	0.010B	0.235	0.010	0.001	0.003	0.001	0.001	0	---	---	27
28	---	---	0.024B	0.222	0.009	0.001	0.002	0.001	0.001	0	---	---	28
29	---	---	0.132B	0.169	0.008	0.001	0.001	0.001	0.001	0 A	---	---	29
30	---		0.254B	0.083	0.005	0.001	0.001	0.001	0.001	0 E	---	---	30
31	---		0.313B		0.005		0.001	0.001		0 E		---	31
TOTAL	---	---	0.753	5.707	1.290	0.045	1.309	0.288	0.030	0.004	---	---	TOTAL
MEAN	---	---	0.024	0.190	0.042	0.002	0.042	0.009	0.001	0	---	---	MEAN
MAX	---	---	0.313	0.580	0.291	0.004	0.456	0.104	0.001	0.001	---	---	MAX
MIN	---	---	0	0.025	0.005	0.001	0.001	0.001	0.001	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.038
MAXIMUM DAILY, 0.580B ON APR 04
MINIMUM DAILY, 0B ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 39 10 N
LONG 113 04 45 W
DRAINAGE AREA, 222 km²

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	113
FEB	---	AUG	24.9
MAR	65.1	SEP	2.59
APR	493	OCT	0.346
MAY	111	NOV	---
JUN	3.89	DEC	---

TOTAL DISCHARGE, 814 dam³

BAPTISTE LAKE NEAR ATHABASCA - STATION NO. 07BE002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	578.575	578.447	578.272	578.323	578.245E	578.186	---	---	1
2	---	---	---	---	578.575	578.439	578.267	578.315	578.243	578.184	---	---	2
3	---	---	---	---	578.585	578.437	578.319	578.305	578.242	578.182	---	---	3
4	---	---	---	---	578.590	578.421	578.342	578.301	578.240	578.181	---	---	4
5	---	---	---	---	578.599	578.416	578.359	578.298	578.236	578.181	---	---	5
6	---	---	---	---	578.606	578.408	578.372	578.293	578.234	578.181	---	---	6
7	---	---	---	---	578.612	578.396	578.377	578.286	578.237E	578.180	---	---	7
8	---	---	---	---	578.627	578.387	578.390	578.278	578.236E	578.180	---	---	8
9	---	---	---	---	578.635	578.379	578.395	578.273	578.238	578.178E	---	---	9
10	---	---	---	---	578.654	578.369	578.404	578.273	578.235E	578.177	---	---	10
11	---	---	---	---	578.657	578.373	578.405	578.270	578.231	578.177	---	---	11
12	---	---	---	---	578.662	578.369	578.410	578.266	578.234	578.175	---	---	12
13	---	---	---	---	578.666	578.366	578.405E	578.260E	578.232	578.174	---	---	13
14	---	---	---	---	578.674	578.359	578.400E	578.254	578.227	578.172	---	---	14
15	---	---	---	---	578.664	578.349	578.396	578.259	578.226	578.171	---	---	15
16	---	---	---	---	578.640	578.348	578.390	578.267	578.224	578.169	---	---	16
17	---	---	---	---	578.625	578.349	578.390	578.273	578.222E	578.167	---	---	17
18	---	---	---	---	578.611	578.343	578.389	578.269	578.220E	578.166	---	---	18
19	---	---	---	---	578.595	578.338	578.382	578.265	578.218	578.165	---	---	19
20	---	---	---	---	578.580	578.335	578.379	578.263	578.217	578.164	---	---	20
21	---	---	---	---	578.562	578.328	578.376	578.262	578.214E	578.163	---	---	21
22	---	---	---	---	578.551	578.320	578.371	578.265	578.210	578.163	---	---	22
23	---	---	---	---	578.538	578.312	578.364	578.260E	578.209	578.161	---	---	23
24	---	---	---	---	578.530	578.303	578.361	578.255E	578.208	578.161	---	---	24
25	---	---	---	---	578.520	578.296	578.360	578.249	578.205E	578.159	---	---	25
26	---	578.301	---	---	578.512	578.288	578.356	578.248	578.203E	578.157	---	---	26
27	---	---	---	---	578.502	578.296	578.353	578.239	578.200	578.157	---	---	27
28	---	---	---	---	578.481	578.290	578.346	578.239E	578.196	578.155	---	---	28
29	---		---	---	578.466	578.284	578.339	578.239	578.193	578.153	---	---	29
30	---		---	---	578.462	578.278	578.332	578.237	578.190	578.148	---	---	30
31	---		---		578.452		578.328	578.246		578.148E		---	31
MEAN	---	---	---	---	578.581	578.354	578.366	578.269	578.222	578.169	---	---	MEAN
MAX	---	---	---	---	578.674	578.447	578.410	578.323	578.245	578.186	---	---	MAX
MIN	---	---	---	---	578.452	578.278	578.272	578.237	578.190	578.148	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 54 44 14 N
LONG 113 31 51 W

A - MANUAL GAUGE
E - ESTIMATED

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

DRAINAGE AREA, 303 km²

BAPTISTE RIVER NEAR THE MOUTH - STATION NO. 05DC012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2.25B	0.992B	1.44B	31.1 B	17.5	48.8	12.9	6.45	7.14	3.09	3.66	1.57 B	1
2	2.15B	1.02 B	1.36B	30.1 B	18.3	39.0	11.9	6.21	6.47	3.26	3.13 B	1.54 B	2
3	2.05B	1.12 B	1.67B	29.9 B	18.9	32.9A	67.8	5.94	5.83	3.14	2.98 B	1.52 B	3
4	2.00B	0.966B	2.03B	25.3 B	18.4	31.1E	144	5.77	5.47	3.15	1.97 B	1.48 B	4
5	2.05B	0.906B	2.16B	20.0 B	16.9	30.5E	87.1	5.44	5.05	3.69	2.24 B	1.45 B	5
6	2.20B	0.900B	2.73B	20.6 B	15.9	29.9E	59.9	4.93	4.74	3.80	2.02 B	1.43 B	6
7	2.40B	0.900B	2.48B	10.9 B	14.7	29.2E	70.7	4.46	4.21	3.98	2.60 B	1.40 B	7
8	2.35B	0.850B	2.23B	9.52B	14.7	28.6E	59.8	4.33	3.88	4.03	2.46 B	1.37 B	8
9	2.25B	0.950B	2.45B	5.38B	19.3	28.0E	38.1	4.22	3.65	4.70	2.13 B	1.35 B	9
10	2.20B	1.15 B	1.90B	4.35B	17.1	27.3E	28.5	4.31	3.51	5.20	2.04 B	1.32 B	10
11	2.07B	1.50 B	1.61B	5.14B	15.9	34.8E	23.1	4.39	3.46	5.64	1.97 B	1.30 B	11
12	2.15B	1.63 B	1.62B	6.33B	14.1	55.0E	19.4	4.22	3.41	6.30	1.83 B	1.28 B	12
13	1.84B	1.43 B	1.67B	6.92B	17.5	86.2E	17.2	4.20	3.38	6.09	1.81 B	1.25 B	13
14	1.72B	1.46 B	1.56B	9.77	19.7	99.8E	15.1	3.94	3.38	5.75	1.83 B	1.22 B	14
15	1.75B	1.42 B	1.43B	11.8	19.4	91.5E	13.3	4.13	3.38	5.49	1.73 B	1.20 B	15
16	1.70B	1.25 B	1.56B	13.0	18.6	83.4E	14.2	4.50	3.51	5.14	1.69 B	1.18 B	16
17	1.70B	1.05 B	1.86B	11.9	17.3	75.6E	16.1	4.67	6.13	4.83	1.77 B	1.17 B	17
18	1.65B	1.10 B	2.21B	12.6	17.6	66.2E	15.4	5.47	8.47	4.54	1.67 B	1.14 B	18
19	1.60B	1.05 B	3.41B	18.3	20.2	61.4E	13.9	8.41	7.57	4.52	1.60 B	1.11 B	19
20	1.62B	1.11 B	3.07B	15.8	20.0	54.6E	13.6	7.17	6.58	4.29	1.71 B	1.08 B	20
21	1.65B	1.07 B	4.76B	17.1	21.9	48.4E	12.4	6.17	5.81	2.84B	1.56 B	1.05 B	21
22	1.92B	1.10 B	5.24B	16.6	33.5	42.4E	10.7	5.69	4.99	2.87B	1.03 B	1.03 B	22
23	2.07B	1.54 B	3.66B	20.1	39.8	36.9E	9.39	8.38	4.40	2.65B	0.946B	1.01 B	23
24	2.13B	1.69 B	2.14B	22.8	47.6A	32.2E	8.66	20.4	3.89	2.85B	0.820B	1.00 B	24
25	2.32B	1.85 B	2.02B	22.4	50.0E	27.9E	9.57	18.4	3.68	2.95B	0.906B	0.980B	25
26	2.07B	1.75 B	2.60B	23.0	70.0E	23.7E	9.06	15.3	3.45	3.79	1.36 B	0.950B	26
27	1.97B	1.72 B	5.03B	23.0	60.0E	19.8E	8.17	13.7	3.32	3.72	1.57 B	0.930B	27
28	1.96B	1.82 B	8.25B	22.3	50.0E	16.1A	7.47	11.7	3.25	3.65	1.50 B	0.910B	28
29	1.80B		11.1 B	20.5	42.0E	15.7	6.92	9.57	3.23	3.74	1.60 B	0.890B	29
30	1.62B		16.1 B	16.5	45.0E	14.3	6.39	8.23	3.08	3.84	1.59 B	0.870B	30
31	1.41B		26.8 B		51.3A		6.41	7.83		3.65		0.850B	31
TOTAL	60.62	35.374	128.65	500.17	846.1	1 313.5	837.26	226.56	138.34	126.88	54.822	36.830	TOTAL
MEAN	1.96	1.26	4.15	16.7	27.3	43.8	27.0	7.37	4.61	4.09	1.83	1.19	MEAN
MAX	2.40	1.85	26.8	31.1	70.0	99.9	144	20.4	8.47	6.30	3.66	1.57	MAX
MIN	1.41	0.850	1.36	4.35	14.7	14.3	6.39	3.94	3.08	2.65	0.820	0.850	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 11.8
MAXIMUM DAILY, 144 ON JUL 04
MINIMUM DAILY, 0.820B ON NOV 24
MAXIMUM INSTANTANEOUS, 158 AT 08:30 MST ON JUL 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 39 56 N
LONG 115 04 27 W
DRAINAGE AREA, 1 350 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	5 240	JUL	72 300
FEB	3 060	AUG	19 700
MAR	11 100	SEP	12 000
APR	43 200	OCT	11 000
MAY	73 100	NOV	4 740
JUN	113 000	DEC	3 180

TOTAL DISCHARGE, 372 000 dam³

BARE CREEK RESERVOIR NEAR ELKWATER - STATION NO. 11AB094

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1 134.118	1 136.082	1 136.227	1 136.599	1 136.508	1 136.186	1 135.527	1 135.387	---	---	1
2	---	---	1 134.129	1 136.148	1 136.232	1 136.593	1 136.502	1 136.082	1 135.524	1 135.371	---	---	2
3	---	---	1 134.160	1 136.197	1 136.236	1 136.592	1 136.494	1 135.982	1 135.520	1 135.260	---	---	3
4	---	---	1 134.250	1 136.210	1 136.238	1 136.589	1 136.480	1 135.878	1 135.516	1 135.136	---	---	4
5	---	---	1 134.425	1 136.210	1 136.585	1 136.479	1 135.771	1 135.513	1 135.491	1 135.007	---	---	5
6	---	---	1 134.574	1 136.211	1 136.235	1 136.579	1 136.484	1 135.677	1 135.508	1 134.959	---	---	6
7	---	---	1 134.791	1 136.215	1 136.227	1 136.578	1 136.475	1 135.657	1 135.500	1 134.956	---	---	7
8	---	---	1 134.986	1 136.213	1 136.225	1 136.577	1 136.469	1 135.648	1 135.494	1 134.955	---	---	8
9	---	---	1 135.074	1 136.209	1 136.218	1 136.574	1 136.472	1 135.641	1 135.491	1 134.959	---	---	9
10	---	---	1 135.145	1 136.206	1 136.220	1 136.572	1 136.468	1 135.635	1 135.487	1 134.953	---	---	10
11	---	---	1 135.220	1 136.208	1 136.217	1 136.562	1 136.462	1 135.630	1 135.484	1 134.949	---	---	11
12	---	---	1 135.248	1 136.212	1 136.216	1 136.555	1 136.458	1 135.624	1 135.480	1 134.949	---	---	12
13	---	---	1 135.260	1 136.218	1 136.216	1 136.561	1 136.450	1 135.620	1 135.473	1 134.948	---	---	13
14	---	---	1 135.262	1 136.224	1 136.217	1 136.561	1 136.442	1 135.612	1 135.464	1 134.948	---	---	14
15	---	---	1 135.267	1 136.226	1 136.219	1 136.559	1 136.432	1 135.609	1 135.463	1 134.945	---	---	15
16	---	---	1 135.263	1 136.222	1 136.211	1 136.558	1 136.429	1 135.605	1 135.453	1 134.947	---	---	16
17	---	---	1 135.264	1 136.223	1 136.210	1 136.556	1 136.424	1 135.599	1 135.448	1 134.951	---	---	17
18	---	---	1 135.266	1 136.226	1 136.210	1 136.553	1 136.419	1 135.592	1 135.444	1 134.951	---	---	18
19	---	---	1 135.269	1 136.226	1 136.212	1 136.549	1 136.416	1 135.587	1 135.438	1 134.952	---	---	19
20	---	---	1 135.316	1 136.227	1 136.212	1 136.545	1 136.409	1 135.585	1 135.432	1 134.943	---	---	20
21	---	---	1 135.483	1 136.230	1 136.225	1 136.540	1 136.404	1 135.583	1 135.428	1 134.945	---	---	21
22	---	1 134.108A	1 135.517	1 136.231	1 136.221	1 136.539	1 136.402	1 135.575	1 135.424	1 134.949	---	---	22
23	---	1 134.106	1 135.527	1 136.227	1 136.220	1 136.536	1 136.400	1 135.570	1 135.420	1 134.946	---	---	23
24	---	1 134.102	1 135.531	1 136.224	1 136.215	1 136.534	1 136.399	1 135.562	1 135.417	1 134.946	---	---	24
25	---	1 134.107	1 135.537	1 136.223	1 136.558	1 136.532	1 136.391	1 135.565	1 135.419	1 134.949	---	---	25
26	---	1 134.111	1 135.545	1 136.218	1 136.608	1 136.530	1 136.391	1 135.568	1 135.409	1 134.948	---	---	26
27	---	1 134.110	1 135.578	1 136.213	1 136.616	1 136.530	1 136.394	1 135.566	1 135.402	1 134.942	---	---	27
28	---	1 134.114	1 135.670	1 136.212	1 136.617	1 136.517	1 136.394	1 135.553	1 135.396	1 134.941	---	---	28
29	---		1 135.785	1 136.214	1 136.614	1 136.515	1 136.387	1 135.550	1 135.392	1 134.939	---	---	29
30	---		1 135.909	1 136.218	1 136.611	1 136.513	1 136.376	1 135.545	1 135.393	1 134.935A	---	---	30
31	---		1 136.013		1 136.606		1 136.290	1 135.534		1 134.932E		---	31
MEAN	---	---	1 135.174	1 136.211	1 136.309	1 136.556	1 136.432	1 135.658	1 135.459	1 134.993	---	---	MEAN
MAX	---	---	1 136.013	1 136.231	1 136.617	1 136.599	1 136.508	1 136.186	1 135.527	1 135.387	---	---	MAX
MIN	---	---	1 134.118	1 136.082	1 136.210	1 136.513	1 136.290	1 135.534	1 135.392	1 134.932	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 1 136.617 ON MAY 28

MAXIMUM INSTANTANEOUS,
1 136.626 AT 20:00 CST ON MAY 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 26 06 N
LONG 110 23 45 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA,
24.1 km²

WATER LEVELS ARE REFERRED TO TOPOGRAPHIC SURVEY DATUM

REMARKS - THE MAXIMUM INSTANTANEOUS WATER LEVEL OCCURRED AS A RESULT OF WIND SETUP

BARRIER LAKE NEAR SEEBE - STATION NO. 05BF024

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 375.60	1 375.40	1 375.60	1 374.90	1 371.30	1 373.30	1 372.20	1 374.10	1 375.10	1 374.50	1 375.30	1 375.30	1
2	1 375.70	1 375.40	1 375.60	1 374.60	1 371.00	1 373.90	1 372.10	1 374.40	1 375.10	1 374.50	1 375.20	1 375.30	2
3	1 375.70	1 375.50	1 375.50	1 374.50	1 370.80	1 374.20	1 372.10	1 374.60	1 375.00	1 374.60	1 375.30	1 375.10	3
4	1 375.80	1 375.40	1 375.40	1 374.50	1 370.60	1 373.90	1 372.20	1 374.70	1 374.80	1 374.80	1 375.30	1 375.10	4
5	1 375.90	1 375.30	1 375.20	1 374.50	1 370.60	1 373.70	1 372.20	1 374.60	1 375.00	1 375.00	1 375.10	1 375.10	5
6	1 375.80	1 375.40	1 375.20	1 374.50	1 370.70	1 373.60	1 372.10	1 374.60	1 374.90	1 375.20	1 375.20	1 375.20	6
7	1 375.70	1 375.50	1 375.40	1 374.60	1 370.40	1 373.50	1 372.30	1 374.50	1 374.90	1 375.10	1 375.10	1 375.30	7
8	1 375.60	1 375.50	1 375.40	1 374.40	1 370.20	1 373.40	1 372.50	1 374.50	1 374.90	1 375.00	1 375.10	1 375.60	8
9	1 375.70	1 375.60	1 375.40	1 374.10	1 370.00	1 373.40	1 372.80	1 374.70	1 374.70	1 375.10	1 375.10	1 375.60	9
10	1 375.80	1 375.60	1 375.50	1 374.00	1 369.90	1 373.30	1 372.50	1 374.70	1 374.60	1 375.10	1 375.30	1 375.40	10
11	1 375.80	1 375.50	1 375.40	1 373.90	1 369.60	1 373.40	1 372.50	1 374.60	1 374.60	1 375.20	1 375.30	1 375.50	11
12	1 375.80	1 375.40	1 375.20	1 373.80	1 369.50	1 373.20	1 372.50	1 374.60	1 374.70	1 375.30	1 375.30	1 375.60	12
13	1 375.80	1 375.40	1 375.20	1 373.70	1 369.50	1 373.30	1 372.50	1 374.60	1 374.80	1 375.30	1 375.30	1 375.60	13
14	1 375.70	1 375.50	1 375.30	1 373.50	1 369.30	1 373.20	1 372.90	1 374.60	1 374.90	1 375.30	1 375.40	1 375.70	14
15	1 375.70	1 375.50	1 375.30	1 373.30	1 369.30	1 373.30	1 373.00	1 374.60	1 374.90	1 375.10	1 375.30	1 375.80	15
16	1 375.80	1 375.50	1 375.40	1 373.00	1 369.20	1 373.10	1 373.00	1 374.70	1 374.80	1 375.20	1 375.20	1 375.60	16
17	1 375.90	1 375.50	1 375.40	1 372.80	1 369.00	1 372.80	1 373.20	1 374.80	1 374.70	1 375.20	1 375.30	1 375.30	17
18	1 375.80	1 375.40	1 375.20	1 372.60	1 369.00	1 372.70	1 373.30	1 374.80	1 374.80	1 375.20	1 375.30	1 375.30	18
19	1 375.80	1 375.30	1 375.00	1 372.50	1 369.00	1 372.70	1 373.50	1 374.80	1 374.80	1 375.30	1 375.00	1 375.20	19
20	1 375.80	1 375.30	1 375.10	1 372.60	1 369.30	1 372.50	1 373.60	1 374.80	1 374.90	1 375.30	1 375.00	1 375.30	20
21	1 375.70	1 375.40	1 375.20	1 372.50	1 369.20	1 372.50	1 373.70	1 375.00	1 374.90	1 375.30	1 375.10	1 375.30	21
22	1 375.50	1 375.60	1 375.30	1 372.30	1 369.00	1 372.50	1 373.90	1 375.10	1 374.90	1 375.10	1 375.10	1 375.40	22
23	1 375.60	1 375.70	1 375.30	1 372.00	1 368.90	1 372.50	1 373.50	1 375.10	1 374.80	1 375.10	1 375.20	1 375.40	23
24	1 375.70	1 375.70	1 375.30	1 372.00	1 369.10	1 372.40	1 373.50	1 375.10	1 374.70	1 375.30	1 375.20	1 375.20	24
25	1 375.90	1 375.50	1 375.10	1 372.10	1 370.60	1 372.50	1 373.90	1 375.10	1 374.70	1 375.30	1 375.20	1 375.40	25
26	1 375.90	1 375.40	1 374.90	1 372.00	1 372.10	1 372.60	1 374.40	1 375.00	1 374.70	1 375.40	1 375.10	1 375.30	26
27	1 375.80	1 375.50	1 374.90	1 372.00	1 372.50	1 372.50	1 374.30	1 375.00	1 374.70	1 375.40	1 375.00	1 375.20	27
28	1 375.70	1 375.50	1 374.90	1 371.80	1 372.50	1 372.50	1 374.20	1 375.00	1 374.80	1 375.40	1 375.10	1 375.20	28
29	1 375.50		1 374.90	1 371.60	1 372.70	1 372.40	1 374.00	1 375.00	1 374.70	1 375.40	1 375.10	1 375.30	29
30	1 375.50		1 375.00	1 371.30	1 372.90	1 372.40	1 373.70	1 375.10	1 374.60	1 375.30	1 375.20	1 375.30	30
31	1 375.40		1 375.10		1 373.00		1 373.80	1 375.10		1 375.20		1 375.10	31
MEAN	1 375.72	1 375.47	1 375.25	1 373.20	1 370.35	1 373.04	1 373.08	1 374.77	1 374.81	1 375.15	1 375.19	1 375.35	MEAN
MAX	1 375.90	1 375.70	1 375.60	1 374.90	1 373.00	1 374.20	1 374.40	1 375.10	1 375.10	1 375.40	1 375.40	1 375.80	MAX
MIN	1 375.40	1 375.30	1 374.90	1 371.30	1 368.90	1 372.40	1 372.10	1 374.10	1 374.60	1 374.50	1 375.00	1 375.10	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 1 374.27
MAXIMUM DAILY, 1 375.90 ON JAN 05
MINIMUM DAILY, 1 368.90 ON MAY 23

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 01 59 N
LONG 115 02 29 W

DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA,
895 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

BATTERSEA DRAIN NEAR THE MOUTH - STATION NO. 05AD038

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.005	0.839	0.251	0.526	0.423	0.837	---	---	1
2	---	---	---	---	0.004	0.751	0.237	0.659	0.383	0.924	---	---	2
3	---	---	---	---	0.042	0.734	0.049	0.745	0.459	0.568	---	---	3
4	---	---	---	---	0.018	0.706	0.011	0.468	0.280	0.553	---	---	4
5	---	---	---	---	0.065	0.624	0.112	0.427	0.283	0.497	---	---	5
6	---	---	---	---	0.068	0.639	0.379	0.498	0.379	0.384	---	---	6
7	---	---	---	---	0.180	0.531	0.422	0.516	0.575	0.685	---	---	7
8	---	---	---	---	0.113	0.462	0.385	0.456	0.572	0.718	---	---	8
9	---	---	---	---	0.206	0.406	0.473	0.448	0.636	0.508	---	---	9
10	---	---	---	---	0.202	0.363	0.364	0.286	0.619	0.559	---	---	10
11	---	---	---	---	0.257	0.428	0.268	0.226	0.455	0.636	---	---	11
12	---	---	---	---	0.225	0.323	0.136	0.384	0.321	0.554	---	---	12
13	---	---	---	---	0.313	0.436	0.058	0.544	0.266	0.472	---	---	13
14	---	---	---	---	0.374	0.366	0.255	0.530	0.352	0.611	---	---	14
15	---	---	---	---	0.109	0.333	0.397	0.454	0.745	0.646	---	---	15
16	---	---	---	---	0.045	0.321	0.463	0.421	0.810	0.397	---	---	16
17	---	---	---	---	0.187	0.286	0.528	0.310	0.588	0.076	---	---	17
18	---	---	---	0.019A	0.254	0.273	0.109	0.395	0.124	0.025	---	---	18
19	---	---	---	0.023	0.340	0.214	0.109	0.746	0.201	0.017	---	---	19
20	---	---	---	0.017	0.450	0.208	0.503	1.09	0.457	0.013	---	---	20
21	---	---	---	0.015	0.597	0.235	0.520	0.552	0.536	0.014	---	---	21
22	---	---	---	0.013	0.365	0.076	0.393	0.201	0.398	0.012	---	---	22
23	---	---	---	0.011	0.342	0.197	0.559	0.323	0.499	0.010	---	---	23
24	---	---	---	0.010	0.503	0.268	0.532	0.539	0.786	0.011	---	---	24
25	---	---	---	0.008	1.16	0.324	0.573	0.844	0.809	0.010	---	---	25
26	---	---	---	0.010	0.899	0.313	0.617	1.08	0.532	0.012	---	---	26
27	---	---	---	0.010	0.777	0.493	0.493	1.02	0.393	0.010	---	---	27
28	---	---	---	0.009	0.849	0.348	0.451	0.611	0.557	0.012	---	---	28
29	---	---	---	0.009	1.25	0.221	0.523	0.465	0.574	0.010	---	---	29
30	---		---	0.006	0.978	0.129	0.506	0.519	0.714	0.012	---	---	30
31	---		---		0.875		0.420	0.582		0.016A		---	31
TOTAL	---	---	---	---	12.052	11.847	11.096	16.945	14.726	9.809	---	---	TOTAL
MEAN	---	---	---	---	0.389	0.395	0.358	0.547	0.491	0.316	---	---	MEAN
MAX	---	---	---	---	1.25	0.839	0.617	1.09	0.810	0.924	---	---	MAX
MIN	---	---	---	---	0.004	0.076	0.011	0.226	0.124	0.010	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.416
MAXIMUM DAILY, 1.25 ON MAY 29
MINIMUM DAILY, 0.004 ON MAY 02

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 52 20 N
LONG 112 36 00 W

A - MANUAL GAUGE

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	959
FEB	---	AUG	1 460
MAR	---	SEP	1 270
APR	---	OCT	847
MAY	1 040	NOV	---
JUN	1 020	DEC	---

TOTAL DISCHARGE, 6 600 dam³

BATTLE RIVER NEAR FORESTBURG - STATION NO. 05FC001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.120B	13.6B	15.9	5.95	21.0E	47.9	6.01	3.04	---	---	1
2	---	---	0.114B	16.6B	13.9	9.43	20.6E	46.0	5.23	2.46	---	---	2
3	---	---	0.176B	22.4B	13.3	7.80	20.2A	43.8	5.20	3.99	---	---	3
4	---	---	0.264B	31.4B	13.2	6.63	15.2A	41.3	4.94	3.70	---	---	4
5	---	---	0.440B	25.4	13.3	6.72	12.3	38.9	4.56	2.21	---	---	5
6	---	---	0.495B	27.1	13.1	7.70	11.4	36.6	4.44	1.91	---	---	6
7	---	---	0.691B	29.1	13.7	7.29	10.2	34.3	4.31	2.11	---	---	7
8	---	---	1.77 B	30.7	13.4	6.91	15.1	31.9	4.21	1.88	---	---	8
9	---	---	2.86 B	32.4	12.5	6.85	14.1	29.5	4.22	1.99	---	---	9
10	---	---	1.93 B	33.5	11.1	6.91	14.0	26.3	3.94	1.94	---	---	10
11	---	---	1.99 B	34.2	10.7	6.86	15.5	23.7	3.74	3.47	---	---	11
12	---	---	1.42 B	34.3	10.2	7.97	17.2	21.2	3.69	2.94	---	---	12
13	---	---	1.36 B	34.0	9.80	9.56	20.5	18.9	4.02	1.86	---	---	13
14	---	---	0.964B	33.4	9.38	10.2	27.2	17.2	4.07	2.31	---	---	14
15	---	---	0.737B	32.5	9.16	9.17	34.4	15.2	3.87	2.55	---	---	15
16	---	---	0.891B	31.3	9.30	7.76	40.5	13.9	3.33	2.07	---	---	16
17	---	---	1.65 B	30.0	8.70	7.02	45.4	12.9	3.09	1.76	---	---	17
18	---	---	1.51 B	28.3	8.03	7.58	49.3	11.9 A	4.25	1.58	---	---	18
19	---	---	4.26 B	27.3	7.67	8.07	51.7	11.4 E	3.22	1.40	---	---	19
20	---	---	5.99 B	25.6	7.14	8.61	53.3	10.8 E	3.36	2.66	---	---	20
21	---	---	8.30 B	23.8	6.59	9.16	54.6	10.3 E	3.37	2.53	---	---	21
22	---	0.338B	8.52 B	22.0	7.15	9.87	55.3	9.91E	3.13	1.48	---	---	22
23	---	0.347B	7.63 B	20.6	6.98	9.83A	55.8	9.58E	2.66	1.61	---	---	23
24	---	0.339B	2.04 B	19.5	6.06	10.8 E	56.1	9.75E	2.65	1.67	---	---	24
25	---	0.313B	0.865B	18.2	5.93	12.5 E	56.4	9.21E	2.88	1.27	---	---	25
26	---	0.216B	0.796B	17.2	5.32	14.2 E	56.3	7.70E	2.79	1.51	---	---	26
27	---	0.181B	1.45 B	16.7	5.48	16.0 E	55.9	7.17E	2.95	2.22	---	---	27
28	---	0.155B	6.07 B	15.1	5.65	17.8 E	55.0	6.62A	2.83	2.30	---	---	28
29	---		12.9 B	15.4	5.52	20.5 E	53.8	6.23	2.49	1.40	---	---	29
30	---		19.0 B	16.9	5.18	21.2 E	51.9	5.87	2.33	1.93A	---	---	30
31	---		17.9 B		5.12		49.7	6.07		1.40E		---	31
TOTAL	---	---	108.905	760.5	288.46	296.55	1 115.9	619.61	112.10	67.17	---	---	TOTAL
MEAN	---	---	3.51	25.4	9.31	9.89	36.0	20.0	3.74	2.17	---	---	MEAN
MAX	---	---	19.0	34.3	15.9	21.2	56.4	47.9	6.01	3.99	---	---	MAX
MIN	---	---	0.114	13.6	5.12	5.95	11.4	5.87	2.33	1.27	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 13.8
MAXIMUM DAILY, 56.4 ON JUL 25
MINIMUM DAILY, 0.114B ON MAR 02
MAXIMUM INSTANTANEOUS, 56.5 AT 13:54 MST ON JUL 25

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 34 26 N
LONG 112 20 25 W
DRAINAGE AREA, 7 680 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1973

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	96 400
FEB	---	AUG	53 500
MAR	9 410	SEP	9 690
APR	65 700	OCT	5 800
MAY	24 900	NOV	---
JUN	25 600	DEC	---

TOTAL DISCHARGE, 291 000 dam³

BATTLE RIVER NEAR PONOKA - STATION NO. 05FA001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.473B	0.313B	0.237B	38.4 B	5.93	6.92	8.30	6.26	2.97	1.15	0.961	0.283B	1
2	0.473B	0.289B	0.265B	38.9 B	5.79	6.78	7.92	6.25	3.15	1.50 A	0.940	0.282B	2
3	0.475B	0.266B	0.301B	28.7	5.45	6.30	15.0	5.99	3.19	1.54 E	0.927B	0.281B	3
4	0.474B	0.246B	0.315B	21.1	5.14	6.44	202	5.71	2.95	1.58 E	0.671B	0.280B	4
5	0.471B	0.236B	0.329B	16.3	4.86	7.18	201	5.46	2.83	1.62 E	0.560B	0.280B	5
6	0.472B	0.227B	0.344B	12.6	4.61	8.82	128	5.17	2.65	1.66 E	0.650B	0.280B	6
7	0.463B	0.223B	0.374B	10.0	4.40	9.23	95.2	4.89	2.56	1.70 E	0.502B	0.280B	7
8	0.465B	0.220B	1.00 B	7.95	4.40	8.34	73.5	4.72	2.42	1.73 E	0.480B	0.280B	8
9	0.456B	0.222B	2.00 B	6.05	4.63	7.57	58.9	4.76	2.36	1.76 E	0.460B	0.280B	9
10	0.437B	0.221B	2.00 B	5.06	4.54	7.08	47.0	4.81	2.38	1.78 A	0.440B	0.280B	10
11	0.423B	0.215B	1.75 B	4.45	4.30	7.90	37.0	4.64	2.27	1.93	0.420B	0.280B	11
12	0.418B	0.216B	1.40 B	4.29	3.93	12.0	28.5	4.48	2.27	2.46	0.400B	0.280B	12
13	0.413B	0.205B	1.15 B	4.20	3.67	18.7	21.7	4.30	2.17	3.02	0.395B	0.280B	13
14	0.401B	0.195B	1.04 B	4.11	3.61	28.4	17.5	4.21	2.20	2.93	0.390B	0.280B	14
15	0.396B	0.175B	0.840B	3.98	3.49	36.7	15.2	3.99	2.02	2.96	0.385B	0.279B	15
16	0.393B	0.170B	0.866B	3.91	3.44	36.9	14.5	3.95	1.96	2.80	0.380B	0.279B	16
17	0.388B	0.170B	0.911B	3.76	3.39	25.8	14.4	3.94	1.77	2.53	0.375B	0.278B	17
18	0.389B	0.175B	1.19 B	3.57	3.48	18.0	14.1	3.90	1.84	2.17	0.370B	0.278B	18
19	0.392B	0.180B	2.89 B	3.50	3.50	16.0	13.0	3.86	1.91	1.93	0.365B	0.272B	19
20	0.394B	0.185B	7.24 B	3.55	4.34	14.4	11.7	3.73	1.71	1.74	0.360B	0.264B	20
21	0.395B	0.190B	10.2 B	3.63	4.89	12.8	10.6	3.62	1.72	2.03	0.350B	0.254B	21
22	0.390B	0.189B	10.5 B	3.72	5.21	11.6	9.71	3.61	1.58	1.91	0.340B	0.244B	22
23	0.379B	0.182B	8.51 B	4.11	5.62	10.7	8.95	3.72	1.52	1.63	0.331B	0.236B	23
24	0.374B	0.187B	6.55 B	5.57	6.27	10.0	8.46	3.71	1.34	1.45	0.322B	0.226B	24
25	0.360B	0.194B	3.74 B	8.19	8.47	9.60	8.18	3.64	1.33	1.32	0.314B	0.216B	25
26	0.356B	0.193B	2.87 B	8.87	8.90	9.42	8.09	3.33	1.29	1.12	0.306B	0.206B	26
27	0.353B	0.204B	2.18 B	7.96	8.30	9.29	8.45	3.21	1.37	1.01	0.297B	0.195B	27
28	0.346B	0.223B	1.51 B	6.96	7.37	9.16	8.14	3.10	1.45	1.04	0.289B	0.180B	28
29	0.348B		12.0 B	6.29	6.70	9.04	7.52	2.92	1.35	1.03	0.285B	0.165B	29
30	0.346B		17.8 B	6.08	6.42	8.74	6.93	2.82	1.19	0.845	0.284B	0.150B	30
31	0.330B		25.2 B		6.62		6.53	2.77		0.932		0.135B	31
TOTAL	12.643	5.911	133.502	285.76	161.87	389.81	1 115.98	131.47	61.72	54.807	13.549	7.783	TOTAL
MEAN	0.408	0.211	4.31	9.53	5.22	13.0	36.0	4.24	2.06	1.77	0.452	0.251	MEAN
MAX	0.475	0.313	25.2	38.9	8.90	36.9	202	6.26	3.19	3.02	0.961	0.283	MAX
MIN	0.330	0.170	0.237	3.50	3.39	6.30	6.53	2.77	1.19	0.845	0.284	0.135	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 6.51
MAXIMUM DAILY, 202 ON JUL 04
MINIMUM DAILY, 0.135B ON DEC 31
MAXIMUM INSTANTANEOUS,
291 AT 18:20 MST ON JUL 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 39 44 N
LONG 113 34 56 W
DRAINAGE AREA, 1 830 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 090	JUL	96 400
FEB	511	AUG	11 400
MAR	11 500	SEP	5 330
APR	24 700	OCT	4 740
MAY	14 000	NOV	1 170
JUN	33 700	DEC	672

TOTAL DISCHARGE, 205 000 dam³

BATTLE RIVER NEAR THE SASKATCHEWAN BOUNDARY - STATION NO. 05FE004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.26 B	0.570B	0.624B	53.8B	20.9	10.2	11.2	55.8	11.3	3.06	3.02B	1.60 B	1
2	1.29 B	0.496B	0.641B	71.0B	20.2	10.4	11.2	55.4	10.7	3.59	2.88B	1.52 B	2
3	1.31 B	0.433B	0.690B	76.7B	19.9	10.3	11.8	55.0	10.3	3.68	2.67B	1.70 B	3
4	1.31 B	0.438B	0.702B	70.2B	19.1	10.2	12.1	54.2	10.1	3.68	2.54B	1.64 B	4
5	1.30 B	0.499B	0.693B	59.2	19.2	9.23	13.3	53.4	9.97	3.71	2.81B	1.58 B	5
6	1.31 B	0.593B	0.570B	52.6	18.9	8.60	14.1	52.5	9.12	3.77	2.04B	1.54 B	6
7	1.29 B	0.614B	0.804B	48.8	18.0	15.2	27.6	51.0	8.96	3.92	2.83B	1.47 B	7
8	1.28 B	0.672B	1.65 B	47.8	17.3	20.1	38.4	49.2	8.76	3.91	2.66B	1.53 B	8
9	1.28 B	0.691B	2.28 B	47.4	16.7	22.3	42.2	47.1	8.39	4.20	2.39B	1.50 B	9
10	1.41 B	0.697B	1.72 B	43.5	16.5	24.3	42.9	45.0	8.10	4.42	2.40B	1.58 B	10
11	1.40 B	0.684B	1.32 B	39.9	16.4	24.2	44.4	42.9	7.90	4.08	2.41B	1.57 B	11
12	1.39 B	0.682B	0.792B	39.4	15.9	20.5	47.5	40.4	7.48	4.01	2.23B	1.44 B	12
13	1.45 B	0.650B	0.899B	39.5	15.7	18.3	46.9	38.2	7.13	4.14	2.14B	1.40 B	13
14	1.38 B	0.695B	1.10 B	39.1	16.6	16.3	39.1	35.8	6.89	3.92	2.18B	1.38 B	14
15	1.21 B	0.715B	1.26 B	39.2	16.0	15.5	28.8	33.1	6.62	3.65	2.18B	1.36 B	15
16	1.14 B	0.665B	1.33 B	39.3	14.8	14.7	23.9	30.6	6.47	3.45	2.07B	1.34 B	16
17	1.04 B	0.642B	1.32 B	39.2	14.5	14.8	22.8	28.4	6.22	3.51	2.05B	1.35 B	17
18	0.925B	0.609B	1.65 B	38.8	13.7	19.9	22.6	26.0	6.05	3.70	1.96B	1.19 B	18
19	0.952B	0.561B	12.0 B	38.0	13.4	21.1	25.5	23.1	5.97	3.43	1.79B	1.00 B	19
20	0.994B	0.519B	11.4 B	37.1	13.1	19.0	31.0	21.2	5.75	3.32B	1.69B	0.889B	20
21	1.12 B	0.499B	9.78 B	35.8	12.7	17.7	36.8	19.5	5.43	4.54B	1.69B	0.792B	21
22	1.06 B	0.490B	9.04 B	34.9	12.4	16.0	40.9	18.4	4.85	4.49B	1.58B	0.737B	22
23	0.951B	0.509B	8.26 B	33.2	12.5	14.1	44.3	17.3	4.32	4.39B	1.54B	0.711B	23
24	0.828B	0.487B	8.44 B	31.4	12.2	13.0	47.0	16.4	3.95	4.75B	1.57B	0.640B	24
25	0.788B	0.438B	7.48 B	29.7	11.7	11.9	48.2	15.6	3.64	4.40B	1.61B	0.697B	25
26	0.851B	0.555B	7.61 B	28.2	11.2	11.4	49.4	15.1	3.34	3.66B	1.62B	0.867B	26
27	0.850B	0.584B	14.5 B	26.4	11.0	11.6	51.5	14.5	3.07	3.48B	1.67B	0.776B	27
28	0.868B	0.608B	22.2 B	24.6	10.5	11.6	53.1	13.7	2.86	3.25B	1.70B	0.561B	28
29	0.796B		34.9 B	23.2	10.3	11.5	53.8	12.9	2.72	3.05B	1.66B	0.571B	29
30	0.714B		45.1 B	22.1	10.2	11.1	54.7	12.2	2.57	3.00B	1.60B	0.557B	30
31	0.624B		49.3 B		10.3		55.1	11.8		3.03B		0.477B	31
TOTAL	34.371	16.295	260.135	1 250.0	461.8	455.03	1 092.1	1 005.7	198.93	117.19	63.18	35.965	TOTAL
MEAN	1.11	0.582	8.39	41.7	14.9	15.2	35.2	32.4	6.63	3.78	2.11	1.16	MEAN
MAX	1.45	0.715	49.3	76.7	20.9	24.3	55.1	55.8	11.3	4.75	3.02	1.70	MAX
MIN	0.624	0.433	0.570	22.1	10.2	8.60	11.2	11.8	2.57	3.00	1.54	0.477	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 13.7
MAXIMUM DAILY, 76.7B ON APR 03
MINIMUM DAILY, 0.433B ON FEB 03
MAXIMUM INSTANTANEOUS,
82.2B AT 12:56 CST ON APR 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 51 23 N
LONG 110 01 06 W
DRAINAGE AREA, 24 800 km²
B - ICE CONDITIONS
REGULATED SINCE 1973

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	2 970	JUL	94 400
FEB	1 410	AUG	86 900
MAR	22 500	SEP	17 200
APR	108 000	OCT	10 100
MAY	39 900	NOV	5 460
JUN	39 300	DEC	3 110

TOTAL DISCHARGE, 431 000 dam³

REMARKS - THE MAXIMUM INSTANTANEOUS DISCHARGE OCCURRED DURING A PERIOD OF RAPIDLY CHANGING BACKWATER

BEAR CREEK NEAR INTERNATIONAL BOUNDARY - STATION NO. 11AA028

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.087B	0.453	0.490	0.595	0.054	0	0	0	---	---	1
2	---	---	0.074B	0.431	0.864	0.496	0.050	0	0	0	---	---	2
3	---	---	0.065B	0.527	0.841	0.457	0.061	0	0	0	---	---	3
4	---	---	0.075B	0.567	0.738	0.404	0.064	0	0	0	---	---	4
5	---	---	0.077B	0.366	0.761	0.332	0.060	0	0	0	---	---	5
6	---	---	0.082B	0.283	0.754	0.294	0.054	0	0	0	---	---	6
7	---	---	0.079B	0.234	0.791	0.292	0.047	0	0	0	---	---	7
8	---	---	0.118B	0.210	0.789	0.309	0.041	0	0	0	---	---	8
9	---	---	0.107B	0.193	0.668	0.276	0.033	0	0	0	---	---	9
10	---	---	0.086B	0.163B	0.533	0.261	0.030	0	0	0	---	---	10
11	---	---	0.080B	0.181B	0.446	0.254	0.023	0	0	0	---	---	11
12	---	---	0.046B	0.203	0.399	0.264	0.017	0	0	0	---	---	12
13	---	---	0.029B	0.224	0.378	0.311	0.014	0	0	0	---	---	13
14	---	---	0.050B	0.221	0.343	0.518	0.010	0	0	0	---	---	14
15	---	---	0.063B	0.214	0.299	0.475	0.006	0	0	0	---	---	15
16	---	---	0.065B	0.194	0.274	0.336	0.004	0	0	0	---	---	16
17	---	---	0.062B	0.196	0.247	0.262	0.002	0	0	0	---	---	17
18	---	---	0.059B	0.199	0.232	0.220	0	0	0	0	---	---	18
19	---	---	0.070B	0.195	0.276	0.192	0	0	0	0	---	---	19
20	---	---	0.128B	0.236	0.277	0.179	0	0	0	0	---	---	20
21	---	---	0.220B	0.256	0.248	0.173	0	0	0	0	---	---	21
22	---	---	0.205B	0.324	0.212	0.154	0	0	0	0	---	---	22
23	---	---	0.196B	0.460	0.162	0.132	0	0	0	0	---	---	23
24	---	---	0.181B	0.454	0.163	0.119	0	0	0	0	---	---	24
25	---	---	0.156B	0.377	0.478	0.104	0	0	0	0	---	---	25
26	---	---	0.145B	0.341	1.30	0.088	0	0	0	0	---	---	26
27	---	0.071B	0.161B	0.343	1.50	0.079	0	0	0	0	---	---	27
28	---	0.049B	0.389B	0.414	1.14	0.075	0	0	0	0	---	---	28
29	---		0.608B	0.331	0.838	0.072	0	0	0	0	---	---	29
30	---		0.841B	0.345	0.991	0.070	0	0	0	0	---	---	30
31	---		0.588B		0.976		0	0		0A		---	31
TOTAL	---	---	5.192	9.135	18.408	7.793	0.570	0	0	0	---	---	TOTAL
MEAN	---	---	0.168	0.305	0.594	0.260	0.018	0	0	0	---	---	MEAN
MAX	---	---	0.841	0.567	1.50	0.595	0.064	0	0	0	---	---	MAX
MIN	---	---	0.029	0.163	0.162	0.070	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.168
MAXIMUM DAILY, 1.50 ON MAY 27
MINIMUM DAILY, 0 ON JUL 18
MAXIMUM INSTANTANEOUS,
1.57 AT 11:45 MST ON MAY 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 01 30 N
LONG 111 12 48 W
DRAINAGE AREA, 87.3 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	49.2
FEB	---	AUG	0
MAR	449	SEP	0
APR	789	OCT	0
MAY	1 590	NOV	---
JUN	673	DEC	---

TOTAL DISCHARGE, 3 550 dam³

BEAR CREEK NEAR VALHALLA CENTRE - STATION NO. 07GE007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.77 B	0.143	0.132	0.049	0.002	0.002	0	0B	---	1
2	---	---	0 B	1.46 B	0.124	0.197	0.045	0.001	0.001	0	---	---	2
3	---	---	0 B	1.10 B	0.114	0.216	0.088	0.001	0.001	0	---	---	3
4	---	---	0 B	0.965B	0.115	0.228	0.069	0.001	0.001	0	---	---	4
5	---	---	0 B	0.814B	0.125	0.271	0.052	0.001	0.001	0	---	---	5
6	---	---	0 B	0.700B	0.128	0.290	0.049	0.001	0	0	---	---	6
7	---	---	0 B	0.589B	0.126	0.267	0.048	0.001	0	0	---	---	7
8	---	---	0 B	0.494B	0.121	0.291	0.064	0.001	0	0	---	---	8
9	---	---	0.001B	0.431B	0.128	0.243	0.126	0.001	0	0	---	---	9
10	---	---	0.001B	0.337B	0.124	0.234	0.077	0.001	0	0	---	---	10
11	---	---	0.001B	0.253	0.116	0.555	0.041	0.001	0	0	---	---	11
12	---	---	0.002B	0.251	0.117	2.02	0.028	0	0	0	---	---	12
13	---	---	0.011B	0.210	0.114	7.48	0.030	0	0	0	---	---	13
14	---	---	0.039B	0.156	0.140	8.13	0.036	0	0	0	---	---	14
15	---	---	0.188B	0.157	0.143	4.96	0.038	0	0	0	---	---	15
16	---	---	0.360B	0.169	0.140	3.21	0.048	0	0	0	---	---	16
17	---	---	0.535B	0.147	0.125	2.12	0.041	0	0	0	---	---	17
18	---	---	1.77 B	0.151	0.118	1.38	0.035	0.001	0	0	---	---	18
19	---	---	3.32 B	0.158	0.116	0.964	0.029	0.001	0	0	---	---	19
20	---	---	1.97 B	0.150	0.116	0.803	0.021	0.001	0	0	---	---	20
21	---	---	1.48 B	0.168	0.110	0.597	0.012	0	0	0	---	---	21
22	---	0B	0.372B	0.187	0.104	0.405	0.007	0	0	0	---	---	22
23	---	0B	0.061B	0.188	0.097	0.241	0.006	0	0	0	---	---	23
24	---	0B	0.040B	0.187	0.094	0.174	0.005	0	0	0	---	---	24
25	---	0B	0.053B	0.206	0.111	0.174	0.005	0	0	0	---	---	25
26	---	0B	0.111B	0.320	0.124	0.099	0.005	0	0	0B	---	---	26
27	---	0B	0.287B	0.352	0.136	0.094	0.004	0	0	0B	---	---	27
28	---	0B	0.705B	0.255	0.165	0.084	0.003	0	0	0B	---	---	28
29	---		1.96 B	0.198	0.187	0.056	0.002	0	0	0B	---	---	29
30	---		3.01 B	0.164	0.178	0.042	0.002	0	0	0B	---	---	30
31	---		2.29 B		0.124		0.002	0.001		0B		---	31
TOTAL	---	---	18.567	12.687	3.925	35.957	1.067	0.016	0.006	0	---	---	TOTAL
MEAN	---	---	0.599	0.423	0.127	1.20	0.034	0.001	0	0	---	---	MEAN
MAX	---	---	3.32	1.77	0.187	8.13	0.126	0.002	0.002	0	---	---	MAX
MIN	---	---	0	0.147	0.094	0.042	0.002	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.295
MAXIMUM DAILY, 8.13 ON JUN 14
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
10.2 AT 21:00 MST ON JUN 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 24 02 N
LONG 119 22 53 W
DRAINAGE AREA, 181 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	92.2
FEB	---	AUG	1.38
MAR	1 600	SEP	0.518
APR	1 100	OCT	0
MAY	339	NOV	---
JUN	3 110	DEC	---

TOTAL DISCHARGE, 6 240 dam³

BEAR LAKE NEAR CLAIRMONT - STATION NO. 07GE004

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	663.894	664.430	---	---	---	---	---	1
2	---	---	---	---	---	663.886	664.438	---	---	---	---	---	2
3	---	---	---	---	---	663.898	664.423	---	---	---	---	---	3
4	---	---	---	---	---	663.896	664.386	---	---	---	---	---	4
5	---	---	---	---	---	663.881	664.378	---	---	---	---	---	5
6	---	---	---	---	---	663.866	664.388	---	---	---	---	---	6
7	---	---	---	---	---	663.880	664.380	---	---	---	---	---	7
8	---	---	---	---	---	663.868	664.366	---	---	---	---	---	8
9	---	---	---	---	---	663.856	664.364	---	---	---	---	---	9
10	---	---	---	---	---	663.848	664.360	---	---	---	---	---	10
11	---	---	---	---	---	663.892	664.362	---	---	---	---	---	11
12	---	---	---	---	---	663.978	664.329	---	---	---	---	---	12
13	---	---	---	---	---	664.026	---	---	---	---	---	---	13
14	---	---	---	---	---	664.226	---	---	---	---	---	---	14
15	---	---	---	---	---	664.382	---	---	---	---	---	---	15
16	---	---	---	---	---	664.464	---	---	---	---	---	---	16
17	---	---	---	---	---	664.438	---	---	---	---	---	---	17
18	---	---	---	---	---	664.465	---	---	---	---	---	---	18
19	---	---	---	---	---	664.485	---	---	---	663.475	---	---	19
20	---	---	---	---	---	664.494	---	---	---	---	---	---	20
21	---	---	---	---	---	664.484	---	---	---	---	---	---	21
22	663.193	---	---	---	---	664.475	---	---	---	---	---	---	22
23	---	---	---	---	663.870	664.451	---	---	---	---	---	---	23
24	---	---	---	---	663.880	664.454	---	---	---	---	---	---	24
25	---	---	---	---	663.904	664.458	---	---	---	---	---	---	25
26	---	---	---	---	663.890	664.473	---	---	---	---	---	---	26
27	---	---	---	---	663.884	664.451	---	---	---	---	---	---	27
28	---	---	---	---	663.888	664.444	---	---	---	---	---	---	28
29	---		---	---	663.892	664.435	---	---	---	---	---	---	29
30	---		---	---	663.897	664.427	---	---	---	---	---	---	30
31	---		---		663.890		---	---		---		---	31
MEAN	---	---	---	---	---	664.206	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	664.494	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	663.848	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 55 16 10 N
LONG 118 58 30 W

A - MANUAL GAUGE
E - ESTIMATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

DRAINAGE AREA, 1 190 km²

BEARBERRY CREEK NEAR SUNDRE - STATION NO. 05CA011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	4.11B	2.14	10.7	1.29	1.13	0.384	0.211	---	---	1
2	---	---	---	4.51B	4.39	49.1	1.57	1.04	0.363	0.209	---	---	2
3	---	---	---	5.16B	5.13	21.9	11.6	0.901	0.335	0.201	---	---	3
4	---	---	---	3.37B	3.57	9.71	6.63	0.738	0.308	0.206	---	---	4
5	---	---	---	2.40B	2.40	6.36	3.33	0.612	0.312	0.229	---	---	5
6	---	---	---	1.93B	1.92	7.07	3.78	0.628	0.284	0.259	---	---	6
7	---	---	---	1.43B	1.78	8.18	17.0	0.467	0.273	0.264	---	---	7
8	---	---	---	1.54B	1.72	6.66	7.98	0.391	0.257	0.268	---	---	8
9	---	---	---	1.44B	2.17	4.73	4.00	0.455	0.235	0.260	---	---	9
10	---	---	---	1.25B	2.27	3.73	2.51	0.505	0.237	0.287	---	---	10
11	---	---	---	1.10B	2.15	3.92	1.82	0.397	0.240	0.267	---	---	11
12	---	---	---	1.01B	2.83	9.85	1.44	0.351	0.243	0.300	---	---	12
13	---	---	---	4.35B	4.69	8.86	1.17	0.351	0.261	0.299	---	---	13
14	---	---	---	3.09	4.00	9.53	1.01	0.351	0.327	0.275	---	---	14
15	---	---	---	2.83	3.18	5.60	0.879	0.327	0.307	0.244	---	---	15
16	---	---	0.283B	2.28	2.71	4.02	0.903	0.389	0.261	0.232	---	---	16
17	---	---	---	1.80	3.12	3.65	1.08	0.667	0.239	0.245	---	---	17
18	---	---	---	1.49	3.13	2.97	0.930	1.20	0.259	0.235	---	---	18
19	---	---	---	1.44	2.87	2.72	1.40	1.47	0.231	0.237	---	---	19
20	---	---	---	1.33	2.85	3.06	1.48	1.13	0.227	0.231	---	---	20
21	---	---	---	1.27	3.40	4.17	1.24	0.702	0.211	0.223	---	---	21
22	---	---	---	1.11	5.35	2.63	0.953	0.568	0.221	0.216	---	---	22
23	---	---	---	1.04	3.41	2.16	0.784	0.573	0.210	0.212	---	---	23
24	---	---	---	1.07	3.09	1.83	0.718	0.634	0.213	0.205	---	---	24
25	---	---	---	1.12	15.8	2.11	1.38	0.659	0.198	0.213	---	---	25
26	---	---	---	1.10	15.1	1.54	2.03	1.05	0.178	0.223	---	---	26
27	---	---	---	1.25	8.45	1.29	1.86	1.33	0.179	0.215	---	---	27
28	---	---	0.724B	1.33	5.61	1.46	1.39	0.997	0.183	0.220	---	---	28
29	---	---	1.45 B	1.17	4.40	1.97	1.08	0.670	0.190	0.212	---	---	29
30	---		1.24 B	1.08	6.69	1.47	0.934	0.539	0.194	0.218A	---	---	30
31	---		4.10 B		12.7		0.829	0.426		0.215B		---	31
TOTAL	---	---	---	57.40	143.02	202.95	85.000	21.648	7.560	7.331	---	---	TOTAL
MEAN	---	---	---	1.91	4.61	6.77	2.74	0.698	0.252	0.237	---	---	MEAN
MAX	---	---	---	5.16	15.8	49.1	17.0	1.47	0.384	0.300	---	---	MAX
MIN	---	---	---	1.01	1.72	1.29	0.718	0.327	0.178	0.201	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.45
MAXIMUM DAILY, 49.1 ON JUN 02
MINIMUM DAILY, 0.178 ON SEP 26
MAXIMUM INSTANTANEOUS,
60.2 AT 17:52 MST ON JUN 02

SUMMARY FOR THE MONTHS APR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 48 25 N
LONG 114 42 30 W

DRAINAGE AREA, 227 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL 7 340	
FEB	---	AUG 1 870	
MAR	---	SEP 653	
APR	4 960	OCT 633	
MAY	12 400	NOV ---	
JUN	17 500	DEC ---	

TOTAL DISCHARGE, 45 400 dam³

BEAVER CREEK NEAR BROCKET - STATION NO. 05AB013

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.092B	0.125	0.151	1.31	0.203	0.061	0.020	0.001	0.023	---	1
2	---	---	0.095B	0.138	0.171	1.26	0.193	0.160	0.016	0	0.022	---	2
3	---	---	0.098B	0.133	0.238	1.29	0.154	0.078	0.013	0	0.022B	---	3
4	---	---	0.099B	0.119	0.175	1.17	0.141	0.079	0.011	0	0.026B	---	4
5	---	---	0.100B	0.084	0.121	1.06	0.143	0.076	0.015	0	0.026B	---	5
6	---	---	0.099B	0.040	0.089	1.02	0.177	0.056	0.010	0.002	0.023B	---	6
7	---	---	0.097B	0.052	0.095	0.898	0.166	0.043	0.004	0.005	0.021B	---	7
8	---	---	0.095B	0.057	0.169	0.864	0.174	0.038	0.002	0.017	0.027B	---	8
9	---	---	0.094B	0.073B	0.209	0.843	0.173	0.032	0.002	0.019	---	---	9
10	---	---	0.091B	0.070B	0.203	0.824	0.130	0.033	0.004	0.022	---	---	10
11	---	---	0.090B	0.063B	0.227	0.790	0.126	0.034	0.006	0.029	---	---	11
12	---	---	0.087B	0.065	0.209	0.740	0.122	0.033	0.002	0.023	---	---	12
13	---	---	0.063B	0.047	0.167	0.759	0.088	0.027	0.004	0.021	---	---	13
14	---	---	0.049B	0.038	0.229	0.797	0.085	0.031	0.003	0.021	---	---	14
15	---	---	0.037B	0.070	0.201	0.721	0.082	0.034	0.002	0.021	---	---	15
16	---	---	0.052B	0.089	0.229	0.672	0.077	0.036	0	0.020	---	---	16
17	---	---	0.072B	0.091	0.211	0.634	0.079	0.113	0	0.020	---	---	17
18	---	---	0.085B	0.060	0.195	0.618	0.084	0.261	0.008	0.020	---	---	18
19	---	---	0.095B	0.052	0.309	0.550	0.102	0.127	0.006	0.020	---	---	19
20	---	---	0.112B	0.049	0.342	0.522	0.078	0.113	0.005	0.018	---	---	20
21	---	---	0.088B	0.046	0.269	0.494	0.090	0.083	0.004	0.019	---	---	21
22	---	---	0.078B	0.031	0.224	0.465	0.078	0.059	0.003	0.017	---	---	22
23	---	---	0.070B	0.020	0.181	0.427	0.063	0.049	0.003	0.016	---	---	23
24	---	---	0.064B	0.016	0.243	0.396	0.051	0.046	0.004	0.016	---	---	24
25	---	---	0.122B	0.014	1.18	0.382	0.655	0.050	0.002	0.015	---	---	25
26	---	0.089B	0.109B	0.020	1.21	0.324	0.101	0.059	0.001	0.018	---	---	26
27	---	0.086B	0.084B	0.056	1.18	0.297	0.168	0.062	0.001	0.018	---	---	27
28	---	0.087B	0.074B	0.107	1.21	0.275	0.108	0.058	0.001	0.019	---	---	28
29	---		0.083B	0.119	1.60	0.252	0.087	0.044	0.002	0.018	---	---	29
30	---		0.104B	0.128	1.65	0.224	0.075	0.036	0.001	0.019	---	---	30
31	---		0.127		1.46		0.064	0.028		0.021		---	31
TOTAL	---	---	2.705	2.072	14.347	20.878	4.197	2.039	0.155	0.474	---	---	TOTAL
MEAN	---	---	0.087	0.069	0.463	0.696	0.135	0.066	0.005	0.015	---	---	MEAN
MAX	---	---	0.127	0.138	1.65	1.31	0.655	0.261	0.020	0.029	---	---	MAX
MIN	---	---	0.037	0.014	0.089	0.224	0.051	0.027	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.191
MAXIMUM DAILY, 1.65 ON MAY 30
MINIMUM DAILY, 0 ON SEP 16
MAXIMUM INSTANTANEOUS,
5.51 AT 15:05 MST ON JUL 25

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 38 21 N
LONG 113 47 38 W
DRAINAGE AREA, 256 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	363
FEB	---	AUG	176
MAR	234	SEP	13.4
APR	179	OCT	41.0
MAY 1	240	NOV	---
JUN 1	800	DEC	---

TOTAL DISCHARGE, 4 050 dam³

BEAVER LAKE AT RANGER STATION - STATION NO. 06AA003

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	26.734	---	26.589	26.479	---	26.375	---	1
2	---	---	---	---	---	---	---	---	---	26.455	---	---	2
3	---	---	---	---	26.692	26.734	26.694	26.574	26.479	26.402	---	---	3
4	---	---	---	---	---	---	---	---	---	26.455	---	---	4
5	---	---	---	---	26.694	26.744	---	26.574	26.474	---	---	---	5
6	---	---	---	---	---	---	26.694	---	---	26.460	---	---	6
7	---	---	---	---	26.704	26.734	---	---	26.474	---	---	---	7
8	---	---	26.675	---	---	---	---	26.574	---	26.455	---	---	8
9	---	---	---	---	26.724	26.734	26.684	---	26.479	---	---	---	9
10	---	---	---	---	---	---	---	---	---	---	---	---	10
11	---	---	---	---	26.714	26.734	---	26.564	26.479	26.450	---	---	11
12	---	---	---	---	---	---	26.674	---	---	---	---	---	12
13	---	---	---	---	26.724	26.734	---	26.554	26.479	26.445	---	---	13
14	---	---	---	---	26.724	---	---	---	---	---	---	---	14
15	---	---	---	---	---	26.724	---	26.554	26.474	26.445	---	---	15
16	---	---	---	---	26.724	---	26.659	---	---	---	---	---	16
17	---	---	---	---	---	26.689	---	26.524	26.469	---	---	---	17
18	---	---	---	---	26.734	---	---	---	---	26.435	---	---	18
19	---	---	---	---	26.754	26.674	26.644	26.504	26.464	---	---	---	19
20	---	---	---	---	---	---	---	---	---	26.405	---	---	20
21	---	---	---	---	---	26.664	26.654	26.499	26.464	---	---	---	21
22	---	---	---	---	26.709	---	---	---	---	---	---	---	22
23	---	---	---	---	---	26.674	26.654	26.494	26.469	26.385	---	---	23
24	---	---	---	---	26.704	---	---	---	---	---	---	---	24
25	---	---	---	---	---	26.674	26.634	---	26.459	26.375	---	---	25
26	---	---	---	---	26.704	26.642	---	26.494	---	---	---	---	26
27	---	---	---	---	---	26.684	26.604	26.489	26.454	26.375	---	---	27
28	---	---	---	---	26.724	---	26.594	26.486	26.454	---	---	---	28
29	---		---	---	26.719	26.684	---	26.484	---	26.365	---	---	29
30	---		---	---	26.724	26.694	26.594	26.484	26.450	---	---	---	30
31	---		---		---		---	---		26.375		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 54 45 40 N
LONG 111 54 05 W

A - MANUAL GAUGE

E - ESTIMATED

NATURAL FLOW

DRAINAGE AREA,
331 km²

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

BEAVER RIVER ABOVE SYNCRUDE - STATION NO. 07DA018

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.101B	0.365B	5.00B	6.42 A	0.706	0.079E	0.110	0.251	---	---	1
2	---	---	0.103B	0.420B	6.14	6.16 A	1.06	0.077E	0.118	0.243	---	---	2
3	---	---	0.108B	0.490B	8.14	3.78 A	0.857	0.071E	0.125	0.268	---	---	3
4	---	---	0.112B	0.590B	9.66	3.06 A	0.689	0.069E	0.136	0.308	---	---	4
5	---	---	0.117B	0.670B	10.0	2.60 A	0.556	0.066E	0.142	0.288	---	---	5
6	---	---	0.124B	0.658B	9.36	2.62 A	0.521	0.063E	0.148	0.258	---	---	6
7	---	---	0.134B	0.640B	11.5	2.45 A	0.474	0.061E	0.154	0.241	---	---	7
8	---	---	0.150B	0.620B	12.7	1.76 A	0.396	0.060E	0.154	0.231	---	---	8
9	---	---	0.152B	0.602B	11.6	1.52 A	0.353	0.059E	0.154	0.220	---	---	9
10	---	---	0.162B	0.521B	10.2	1.34 A	0.361	0.056E	0.162	0.217	---	---	10
11	---	---	0.170B	0.489B	8.58	3.71	0.328	0.053E	0.170	0.213	---	---	11
12	---	---	0.179B	0.471B	7.08	14.2	0.267	0.049E	0.184	0.208	---	---	12
13	---	---	0.193B	0.487B	5.93	14.7	0.222	0.046E	0.221	0.201	---	---	13
14	---	---	0.209B	0.499B	5.31	12.1	0.195	0.044E	0.248	0.195	---	---	14
15	---	---	0.235B	0.460B	4.56A	9.26 A	0.168	0.042E	0.240	0.190	---	---	15
16	---	---	0.268B	0.478B	4.31A	6.96 A	0.150	0.040E	0.222	0.184	---	---	16
17	---	---	0.274B	0.524B	4.03A	5.31 A	0.127	0.039E	0.226	0.172	---	---	17
18	---	---	0.276B	0.570B	3.40A	4.48 A	0.129	0.038E	0.222	0.160B	---	---	18
19	---	---	0.270B	0.700B	3.15A	3.87 A	0.132	0.037E	0.201	0.155B	---	---	19
20	---	---	0.256B	0.900B	3.13A	3.54 A	0.140	0.036E	0.213	0.145B	---	---	20
21	---	---	0.246B	1.25 B	2.91A	3.02 A	0.130	0.035E	0.211	0.137B	---	---	21
22	---	---	0.232B	1.55 B	2.64A	2.38 A	0.125A	0.050E	0.200	0.133B	---	---	22
23	---	---	0.234B	2.10 B	2.60A	2.05 A	0.118E	0.070E	0.229	0.128B	---	---	23
24	---	---	0.240B	2.90 B	2.49E	1.47 A	0.113E	0.104A	0.243	0.125B	---	---	24
25	---	---	0.240B	6.70 B	2.29E	1.24 A	0.111E	0.103	0.251	0.122B	---	---	25
26	---	---	0.230B	5.00 B	2.09E	1.01	0.106E	0.090	0.236	0.120B	---	---	26
27	---	---	0.232B	3.80 B	1.89E	0.865	0.101E	0.091	0.208	0.117B	---	---	27
28	---	---	0.230B	3.85 B	1.70E	0.740	0.093E	0.094	0.212	0.114B	---	---	28
29	---	---	0.249B	4.00 B	1.52E	0.591	0.087E	0.105	0.219	0.112B	---	---	29
30	---		0.290B	4.35 B	1.52E	0.488	0.083E	0.111	0.232	0.110B	---	---	30
31	---		0.325B		2.13E		0.081E	0.115		0.108B		---	31
TOTAL	---	---	6.341	46.654	167.56	123.694	8.979	2.053	5.787	5.674	---	---	TOTAL
MEAN	---	---	0.205	1.56	5.41	4.12	0.290	0.066	0.193	0.183	---	---	MEAN
MAX	---	---	0.325	6.70	12.7	14.7	1.06	0.115	0.251	0.308	---	---	MAX
MIN	---	---	0.101	0.365	1.52	0.488	0.081	0.035	0.110	0.108	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.50
MAXIMUM DAILY, 14.7 ON JUN 13
MINIMUM DAILY, 0.035E ON AUG 21
MAXIMUM INSTANTANEOUS,
15.1 AT 19:30 MST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 56 29 N
LONG 111 33 54 W
DRAINAGE AREA, 165 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	776
FEB	---	AUG	177
MAR	548	SEP	500
APR	4 030	OCT	490
MAY	14 500	NOV	---
JUN	10 700	DEC	---

TOTAL DISCHARGE, 31 700 dam³

BEAVER RIVER AT COLD LAKE RESERVE - STATION NO. 06AD006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2.50B	2.33B	2.42B	5.89B	37.9A	18.3	7.56	5.72	2.98	1.53	2.89B	1.17B	1
2	2.65B	2.27B	2.36B	7.49B	37.1A	17.1	7.22	5.27	3.42	1.55	2.42B	1.20B	2
3	2.60B	2.27B	2.37B	19.0 B	37.3	16.2	8.68	4.91	2.91	1.56	2.45B	1.13B	3
4	2.55B	2.46B	2.35B	34.9 B	37.4	14.9	10.3	4.71	2.36	1.59	2.07B	1.20B	4
5	2.65B	2.61B	2.34B	37.5 B	36.4A	14.2	10.4	4.47	2.10	1.63	2.20B	1.21B	5
6	2.79B	2.75B	2.35B	36.3 B	35.8A	13.2	12.2	4.23	1.86	1.84	2.13B	1.26B	6
7	2.90B	2.74B	2.35B	38.3 B	35.4E	12.3	14.9	4.00	1.78	2.09	1.78B	1.17B	7
8	2.90B	2.82B	2.36B	33.0 B	35.0A	11.7	16.0	3.70	1.67	1.99	2.03B	1.45B	8
9	2.89B	2.60B	2.39B	27.9 B	35.7	11.2	16.9	3.53	1.68	1.91	2.00B	1.33B	9
10	2.88B	2.54B	2.29B	23.7 B	36.6	10.5	19.4	3.68	1.68	1.99	1.95B	1.29B	10
11	2.86B	2.51B	2.34B	21.3 B	38.1	10.2	20.4	3.86	1.67	1.97	1.91B	1.32B	11
12	2.83B	2.54B	2.40B	23.0 B	38.5A	10.2	20.1	3.31	1.99	2.02	1.90B	1.30B	12
13	2.84B	2.42B	2.42B	25.2 B	39.9A	9.96	18.7	3.08	2.09	2.16	1.91B	1.24B	13
14	2.88B	2.38B	2.39B	26.2 B	39.1	10.2	16.9	2.97	2.17	2.26	1.96B	1.20B	14
15	2.91B	2.30B	2.52B	24.9 B	38.8A	10.8	15.2	2.90	2.13	2.26	2.02B	1.20B	15
16	2.93B	2.25B	2.65B	22.0	37.3A	11.0	14.1	2.89	2.03	2.36	2.08B	1.17B	16
17	2.90B	2.20B	2.72B	19.4	35.9	11.2	13.3	2.91	1.89	2.71	1.50B	1.17B	17
18	2.89B	2.25B	2.69B	23.0	35.3	11.5	12.2	2.90	1.73	2.58	1.39B	1.15B	18
19	2.90B	2.32B	2.71B	19.1	34.0	11.1	11.1	2.87	1.73	2.57	1.26B	1.37B	19
20	2.97B	2.37B	2.80B	19.5	32.6	10.9	10.5	2.87	1.74	2.61	1.19B	1.35B	20
21	3.02B	2.42B	2.67B	19.0	31.4	10.3	10.0	2.75	1.76	2.48B	1.20B	1.34B	21
22	3.08B	2.53B	2.51B	24.9	30.3	9.84	9.48	2.63	1.77	2.25B	1.19B	1.30B	22
23	3.05B	2.65B	2.53B	25.4	29.2	9.72	8.65	2.36	1.78	2.29B	1.15B	1.28B	23
24	3.02B	2.68B	2.63B	24.8	28.2	9.48	8.11	2.30	1.76	2.45B	1.15B	1.26B	24
25	2.99B	2.66B	2.68B	26.5	27.0	9.02	7.68	2.23	1.64	2.71B	1.06B	1.25B	25
26	2.95B	2.62B	2.74B	30.1	25.7	8.67	7.36	2.16	1.57	3.19B	1.06B	1.26B	26
27	2.91B	2.60B	2.83B	34.4	24.6	8.48	7.42	2.09	1.55	3.31B	1.12B	1.27B	27
28	2.80B	2.56B	3.14B	35.9	23.2	8.12	7.43	1.97	1.56	3.62B	1.15B	1.28B	28
29	2.66B		3.84B	37.4 A	21.7	7.85	6.95	1.85	1.60	3.53B	1.17B	1.29B	29
30	2.52B		5.00B	38.6 A	20.4	7.86	6.52	1.85	1.55	3.13B	1.20B	1.28B	30
31	2.41B		5.78B		19.4		6.06	2.35		2.96B		1.28B	31
TOTAL	87.63	69.65	85.65	784.58	1 014.2	335.80	361.72	99.32	58.15	73.80	50.49	39.23	TOTAL
MEAN	2.83	2.49	2.76	26.2	32.7	11.2	11.7	3.20	1.94	2.38	1.68	1.27	MEAN
MAX	3.08	2.82	5.78	38.6	39.1	18.3	20.4	5.72	3.42	3.62	2.89	1.45	MAX
MIN	2.41	2.20	2.29	5.89	19.4	7.66	6.06	1.85	1.55	1.53	1.06	1.15	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 8.38
MAXIMUM DAILY, 39.1 ON MAY 14
MINIMUM DAILY, 1.06B ON NOV 25
MAXIMUM INSTANTANEOUS,
39.7B AT 08:18 MST ON APR 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 21 15 N
LONG 110 13 00 W
DRAINAGE AREA, 14 500 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	7 570	JUL	31 300
FEB	6 020	AUG	8 580
MAR	7 400	SEP	5 020
APR	67 800	OCT	6 380
MAY	87 600	NOV	4 360
JUN	29 000	DEC	3 390

TOTAL DISCHARGE, 264 000 dam³

BEAVER RIVER NEAR GOODRIDGE - STATION NO. 06AA001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.025B	11.8 B	1.41	0.034	0.158	0.005	0.029	0.020	0.016	---	1
2	---	---	0.025B	12.5 B	1.61	0.035	0.182	0.005	0.039	0.020	---	---	2
3	---	---	0.025B	12.3 B	1.42 A	0.036	0.653	0.006	0.044	0.020	---	---	3
4	---	---	0.025B	12.1 B	0.970E	0.037	1.20	0.007	0.043	0.020	---	---	4
5	---	---	0.025B	10.0 B	0.720E	0.039	1.40	0.008	0.040	0.020	---	---	5
6	---	---	0.025B	8.36 B	0.560E	0.041	0.798	0.009	0.035	0.020	---	---	6
7	---	---	0.030B	7.28 B	0.500E	0.045	0.265	0.010	0.032	0.021	---	---	7
8	---	---	0.030B	5.53 B	0.400E	0.048	0.250	0.011	0.030	0.021	---	---	8
9	---	---	0.030B	4.35 B	0.315E	0.047	0.203	0.013	0.029	0.021	---	---	9
10	---	---	0.025B	3.41 B	0.275E	0.047	0.337	0.017	0.030	0.021	---	---	10
11	---	---	0.081B	2.65 B	0.235E	0.046	0.091	0.022	0.031	0.022	---	---	11
12	---	---	0.063B	2.38 B	0.215E	0.044	0.072	0.030	0.034	0.025	---	---	12
13	---	---	0.089B	2.33 B	0.200E	0.041	0.061	0.035	0.039	0.023	---	---	13
14	---	---	0.101B	2.61 B	0.180E	0.038	0.050	0.039	0.042	0.023	---	---	14
15	---	---	0.082B	2.10 B	0.155E	0.034	0.040	0.038	0.044	0.023	---	---	15
16	---	---	0.111B	1.57 B	0.135E	0.030	0.030	0.037	0.045	0.024	---	---	16
17	---	---	0.039B	1.48 B	0.115E	0.025	0.025	0.037	0.044	0.024	---	---	17
18	---	---	0.037B	1.34	0.100E	0.020	0.022	0.038	0.042	0.025	---	---	18
19	---	---	0.033B	1.49	0.090E	0.013	0.021	0.038	0.038	0.024	---	---	19
20	---	---	0.045B	1.41	0.070E	0.009	0.020	0.034	0.036	0.024	---	---	20
21	---	---	0.048B	0.939	0.060E	0.006	0.019	0.030	0.032	0.023	---	---	21
22	---	---	0.086B	0.884	0.055E	0.001	0.017	0.029	0.030	0.022	---	---	22
23	---	---	0.162B	0.902	0.050E	0.002	0.014	0.025	0.027	0.022	---	---	23
24	---	---	0.391B	1.07	0.045E	0.002	0.012	0.022	0.024	0.021	---	---	24
25	---	---	0.350B	1.12	0.040E	0.002	0.010	0.020	0.022	0.021	---	---	25
26	---	---	0.333B	1.01	0.038E	0.003	0.011	0.017	0.021	0.020	---	---	26
27	---	---	0.400B	1.55	0.036E	0.036	0.012	0.014	0.021	0.020	---	---	27
28	---	---	0.664B	3.84	0.035E	0.054	0.013	0.010	0.020	0.019	---	---	28
29	---	---	1.01 B	2.10	0.034E	0.116	0.015	0.005	0.020	0.018	---	---	29
30	---		3.17 B	1.58	0.033A	0.154	0.013	0.007	0.020	0.018	---	---	30
31	---		9.61 B		0.033		0.010	0.015		0.017		---	31
TOTAL	---	---	17.170	121.985	10.134	1.085	6.024	0.633	0.983	0.659	---	---	TOTAL
MEAN	---	---	0.554	4.07	0.327	0.036	0.194	0.020	0.033	0.021	---	---	MEAN
MAX	---	---	9.61	12.5	1.61	0.154	1.40	0.039	0.045	0.025	---	---	MAX
MIN	---	---	0.025	0.884	0.033	0.001	0.010	0.005	0.020	0.017	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.648
MAXIMUM DAILY, 12.5B ON APR 02
MINIMUM DAILY, 0.001 ON JUN 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 26 08 N
LONG 111 22 00 W
DRAINAGE AREA, 4 710 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	520
FEB	---	AUG	54.7
MAR	1 480	SEP	84.9
APR	10 500	OCT	56.9
MAY	876	NOV	---
JUN	93.7	DEC	---

TOTAL DISCHARGE, 13 700 dam³

BEAVERDAM CREEK NEAR COCHRANE - STATION NO. 05CB005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.002B	0 B	0.004A	0.020	0	0.001A	0	0	0A	---	1
2	---	---	0.010B	0	0.016	0.047	0	0.002	0	0	---	---	2
3	---	---	0.006B	0	0.015	0.047	0	0.002	0	0	---	---	3
4	---	---	0.004B	0.008A	0.005A	0.020	0.001A	0.001A	0	0	---	---	4
5	---	---	0.001B	0.007	0	0.013	0.001A	0	0	0	---	---	5
6	---	---	0.001B	0.002A	0	0.010	0	0	0	0	---	---	6
7	---	---	0.002B	0	0	0.010	0.004A	0	0	0	---	---	7
8	---	---	0.001B	0	0	0.010	0.010	0	0	0	---	---	8
9	---	---	0 B	0.002A	0	0.007	0.006	0	0	0	---	---	9
10	---	---	0 B	0	0.003A	0.005	0.001A	0	0	0	---	---	10
11	---	---	0 B	0 A	0.005	0.011	0	0	0	0	---	---	11
12	---	---	0 B	0 A	0.009	0.016	0	0	0	0	---	---	12
13	---	---	0.001B	0 A	0.009	0.015	0	0	0	0	---	---	13
14	---	---	0 B	0 A	0.014	0.015	0	0	0	0	---	---	14
15	---	---	0 B	0 A	0.017	0.012	0	0	0	0	---	---	15
16	---	---	0.001B	0 A	0.010	0.008	0	0	0	0	---	---	16
17	---	---	0.004B	0 A	0.003A	0.004	0	0	0	0	---	---	17
18	---	---	0.010B	0 A	0.001A	0.001A	0	0	0	0	---	---	18
19	---	---	0.005B	0 A	0 A	0	0	0	0	0	---	---	19
20	---	---	0.001B	0 A	0	0	0	0	0	0	---	---	20
21	---	0 B	0 B	0 A	0	0	0	0	0	0	---	---	21
22	---	0 B	0 B	0 A	0	0	0	0	0	0	---	---	22
23	---	0 B	0 B	0 A	0	0	0	0	0	0	---	---	23
24	---	0 B	0 B	0 A	0.002A	0	0	0	0	0	---	---	24
25	---	0 B	0 B	0 A	0.059	0	0	0	0	0	---	---	25
26	---	0 B	0.001B	0 A	0.048	0	0	0	0	0	---	---	26
27	---	0 B	0.002B	0 A	0.023	0	0	0	0	0	---	---	27
28	---	0.001B	0.007B	0 A	0.014	0	0	0	0	0	---	---	28
29	---		0.002B	0 A	0.012	0	0	0	0	0	---	---	29
30	---		0 B	0 A	0.030	0	0	0	0	0	---	---	30
31	---		0 B		0.035		0	0		0		---	31
TOTAL	---	---	0.061	0.019	0.334	0.271	0.023	0.006	0	0	---	---	TOTAL
MEAN	---	---	0.002	0.001	0.011	0.009	0.001	0	0	0	---	---	MEAN
MAX	---	---	0.010	0.008	0.059	0.047	0.010	0.002	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.003
MAXIMUM DAILY, 0.059 ON MAY 25
MINIMUM DAILY, 0B ON MAR 09
MAXIMUM INSTANTANEOUS,
0.086 AT 17:27 MST ON MAY 25

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 21 45 N
LONG 114 26 20 W
DRAINAGE AREA, 45.3 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1.99
FEB	---	AUG	0.518
MAR	5.27	SEP	0
APR	1.64	OCT	0
MAY	28.9	NOV	---
JUN	23.4	DEC	---

TOTAL DISCHARGE, 61.7 dam³

BEAVERLODGE RIVER NEAR BEAVERLODGE - STATION NO. 07GD001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.503B	10.4 B	3.93	5.25	4.09	0.372	0.029	0.006	0.026A	---	1
2	---	---	1.36 B	7.37B	3.92	5.61	4.08	0.303	0.023	0.007	---	---	2
3	---	---	2.47 B	4.75B	3.60	5.86	4.21	0.263	0.019	0.007	---	---	3
4	---	---	3.70 B	4.32B	3.38	5.99	4.48	0.245	0.017	0.008	---	---	4
5	---	---	5.49 B	4.09B	3.05	5.86	4.70	0.225	0.015	0.008	---	---	5
6	---	---	5.97 B	3.93B	2.68	5.67	4.40	0.204	0.013	0.007	---	---	6
7	---	---	4.73 B	3.51B	2.35	5.84	3.94	0.159	0.012	0.007	---	---	7
8	---	---	3.60 B	3.23B	2.38	6.21	3.52	0.156	0.010	0.007	---	---	8
9	---	---	3.33 B	2.51B	2.47	6.25	3.18	0.140	0.010	0.007	---	---	9
10	---	---	2.00 B	2.60	2.29	6.22	2.92	0.120	0.009	0.008	---	---	10
11	---	---	1.30 B	2.47	2.16	7.46	2.78	0.106	0.016	0.009	---	---	11
12	---	---	0.950B	2.14	2.23	50.0	2.54	0.092	0.030	0.014	---	---	12
13	---	---	0.600B	2.04	3.62	46.5	2.52	0.088	0.019	0.013	---	---	13
14	---	---	1.77 B	1.96	3.38	63.5	2.31	0.081	0.013	0.013	---	---	14
15	---	---	2.33 B	2.00	3.43	113	1.90	0.064	0.009	0.013	---	---	15
16	---	---	5.05 B	2.04	3.55	111	1.63	0.054	0.006	0.014	---	---	16
17	---	---	7.82 B	2.02	3.66	81.2	1.59	0.053	0.005	0.011	---	---	17
18	---	---	7.13 B	2.37	3.76	58.6	1.38	0.054	0.005	0.010	---	---	18
19	---	---	11.3 B	3.00	3.47	45.9	1.29	0.038	0.006	0.010	---	---	19
20	---	---	7.26 B	2.95	3.34	35.2	1.17	0.032	0.003	0.010	---	---	20
21	---	---	4.16 B	2.59	3.26	26.1	1.08	0.030	0.001	0.010	---	---	21
22	---	0.211B	3.98 B	2.32	3.13	19.6	0.987	0.028	0.003	0.010	---	---	22
23	---	0.235B	2.50 B	2.29	3.16	15.6	0.882	0.026	0.001	0.011	---	---	23
24	---	0.215B	1.96 B	2.03	2.90	12.7	0.817	0.023	0.003	0.011	---	---	24
25	---	0.203B	0.700B	1.86	2.96	10.0	0.759	0.020	0.004	0.012	---	---	25
26	---	0.213B	1.50 B	2.10	3.23	7.96	0.670	0.014	0.005A	0.022	---	---	26
27	---	0.222B	3.31 B	2.87	3.59	6.28	0.601	0.015	0.005	0.037	---	---	27
28	---	0.277B	5.38 B	3.51	4.18	5.40	0.584	0.022	0.007	0.026	---	---	28
29	---	---	8.53 B	3.65	4.34	4.91	0.506	0.023	0.004	0.022	---	---	29
30	---	---	13.2 B	3.85	4.38	4.32	0.454	0.023	0.004	0.025	---	---	30
31	---	---	13.0 B		4.86		0.351	0.034		0.024		---	31
TOTAL	---	---	136.183	96.77	102.64	783.99	66.321	3.107	0.306	0.399	---	---	TOTAL
MEAN	---	---	4.39	3.23	3.31	26.1	2.14	0.100	0.010	0.013	---	---	MEAN
MAX	---	---	13.2	10.4	4.86	113	4.70	0.372	0.030	0.037	---	---	MAX
MIN	---	---	0.503	1.86	2.16	4.32	0.351	0.014	0.001	0.006	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.86
MAXIMUM DAILY, 113 ON JUN 15
MINIMUM DAILY, 0.001 ON SEP 21
MAXIMUM INSTANTANEOUS,
123 AT 21:00 MST ON JUN 15

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 11 21 N
LONG 119 26 08 W
DRAINAGE AREA, 1 610 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	5 730
FEB	---	AUG	268
MAR	11 800	SEP	26.4
APR	8 360	OCT	34.5
MAY	8 970	NOV	---
JUN	67 700	DEC	---

TOTAL DISCHARGE, 103 000 dam³

BEAVERTAIL CREEK NEAR HYTHE - STATION NO. 07GD002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.604B	3.02	3.72	1.31	0.027	0.005	0	0B	---	1
2	---	---	0 B	0.353B	2.78	4.08	1.19	0.020	0.006	0	---	---	2
3	---	---	0 B	0.600B	2.55	4.40	1.30	0.017	0.011	0	---	---	3
4	---	---	0.005B	0.952B	2.31	4.47	1.74	0.012	0.012	0	---	---	4
5	---	---	0.298B	1.67 B	2.11	4.50	1.90	0.013	0.014	0	---	---	5
6	---	---	0.712B	1.94 B	1.87	4.61	1.72	0.017	0.016	0	---	---	6
7	---	---	0.577B	1.94 B	1.79	5.03	1.51	0.015	0.017	0	---	---	7
8	---	---	0.325B	1.28 B	1.78	5.59	1.30	0.017	0.017	0	---	---	8
9	---	---	0.300B	1.25 B	1.64	5.30E	1.14	0.020	0.017	0	---	---	9
10	---	---	0.250B	1.46 B	1.46	4.70E	1.03	0.018	0.015				10
11	---	---	0.200B	1.19 B	1.39	5.74	0.903	0.009	0.012	0.001	---	---	11
12	---	---	0.100B	1.06	1.51	12.0	0.814	0.005	0.009	0.001	---	---	12
13	---	---	0.080B	0.978	1.79	64.9	0.720	0.004	0.006	0.001	---	---	13
14	---	---	0.136B	0.961	2.01	113 A	0.556	0.003	0.005	0.001	---	---	14
15	---	---	0.231B	1.08	2.16	98.1	0.390	0.002	0.005	0.001	---	---	15
16	---	---	0.334B	1.10	2.34	72.9	0.246	0.002	0.004	0.001	---	---	16
17	---	---	0.493B	1.34	2.51	54.9	0.169	0.002	0.004	0.002	---	---	17
18	---	---	0.589B	1.88	2.32	38.4	0.119	0.003	0.004	0.002	---	---	18
19	---	---	0.856B	1.90	2.22	25.4	0.123	0.003	0.004	0.002	---	---	19
20	---	---	0.400B	1.68	2.18	18.8	0.119	0.003	0.004	0.002	---	---	20
21	---	---	0.162B	1.51	2.11	14.9	0.064	0.003	0.003	0.002	---	---	21
22	---	0B	0.100B	1.49	2.20	11.6	0.036	0.003	0.003	0.002	---	---	22
23	---	0B	0.050B	1.39	2.01	9.31	0.015	0.003	0.002	0.002	---	---	23
24	---	0B	0.030B	1.27	1.86	7.05	0.028	0.003	0.002	0.002	---	---	24
25	---	0B	0.025B	1.36	1.90	5.11	0.023	0.003	0.001	0.001B	---	---	25
26	---	0B	0.030B	1.92	2.13	3.68	0.025	0.002	0	0.002B	---	---	26
27	---	0B	0.100B	2.53	2.54	2.82	0.021	0.002	0	0.001B	---	---	27
28	---	0B	0.204B	2.76	2.81	2.27	0.013	0.001	0	0.001B	---	---	28
29	---	---	0.442B	2.99	2.91	1.85	0.027	0.001	0	0 B	---	---	29
30	---	---	0.705B	3.07	3.04	1.48	0.025	0.001	0	0 B	---	---	30
31	---	---	1.01 B		3.39		0.020	0.003		0 B		---	31
TOTAL	---	---	8.744	45.508	68.64	610.61	18.606	0.237	0.198	0.027	---	---	TOTAL
MEAN	---	---	0.282	1.52	2.21	20.4	0.600	0.008	0.007	0.001	---	---	MEAN
MAX	---	---	1.01	3.07	3.39	113	1.90	0.027	0.017	0.002	---	---	MAX
MIN	---	---	0	0.353	1.39	1.48	0.015	0.001	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.07
MAXIMUM DAILY, 113A ON JUN 14
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
123 AT 06:00 MST ON JUN 14

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 18 57 N
LONG 119 38 25 W
DRAINAGE AREA, 662 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 610
FEB	---	AUG	20.5
MAR	755	SEP	17.1
APR	3 930	OCT	2.33
MAY	5 930	NOV	---
JUN	52 800	DEC	---

TOTAL DISCHARGE, 65 100 dam³

BEDDINGTON CREEK NEAR CALGARY - STATION NO. 05BH904

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.100B	0.034	0.227	0.024	0.021	0.004	0.001	---	---	1
2	---	---	---	0.100B	0.042	0.205	0.030	0.025	0.003	0.001	---	---	2
3	---	---	---	0.116B	0.051	0.247	0.044	0.020	0.004	0.002	---	---	3
4	---	---	---	0.073B	0.046	0.250	0.033	0.026	0.004	0.002	---	---	4
5	---	---	---	0.050B	0.047	0.176	0.029	0.023	0.004	0.006	---	---	5
6	---	---	---	0.018B	0.039	0.142	0.018	0.009	0.004	0.007	---	---	6
7	---	---	---	0.015B	0.034	0.116	0.025	0.005	0.003	0.006	---	---	7
8	---	---	---	0.015B	0.034	0.073	0.028	0.002	0.002	0.004	---	---	8
9	---	---	---	0.015B	0.035	0.046	0.022	0.001	0.002	0.003	---	---	9
10	---	---	---	0.015B	0.034	0.036	0.021	0	0.002	0.003	---	---	10
11	---	---	---	0.015B	0.031	0.061	0.018	0	0.001	0.004	---	---	11
12	---	---	---	0.014	0.034	0.067	0.010	0	0.001	0.003	---	---	12
13	---	---	---	0.014	0.033	0.058	0.006	0	0.003	0.003	---	---	13
14	---	---	---	0.015	0.032	0.075	0.003	0	0.002	0.004	---	---	14
15	---	---	---	0.020	0.028	0.079	0.002	0	0.002	0.007	---	---	15
16	---	---	---	0.020	0.021	0.068	0	0.001	0.001	0.010	---	---	16
17	---	---	---	0.026	0.017	0.054	0	0.019	0	0.009	---	---	17
18	---	---	---	0.038	0.016	0.028	0.005	0.060	0	0.013	---	---	18
19	---	---	---	0.028	0.017	0.016	0.031	0.027	0	0.012	---	---	19
20	---	---	---	0.022	0.014	0.013	0.037	0.016	0	0.011	---	---	20
21	---	---	---	0.017	0.028	0.013	0.023	0.008	0	0.014	---	---	21
22	---	---	---	0.015	0.024	0.008	0.015	0.005	0	0.011	---	---	22
23	---	---	---	0.035	0.021	0.005	0.013	0.005	0	0.011	---	---	23
24	---	---	---	0.043	0.036	0.005	0.009	0.004	0	0.015	---	---	24
25	---	---	---	0.030	0.176	0.006	0.010	0.004	0	0.011	---	---	25
26	---	---	---	0.034	0.191	0.006	0.015	0.011	0	0.010	---	---	26
27	---	---	---	0.041	0.158	0.003	0.020	0.014	0	0.011	---	---	27
28	---	---	---	0.059	0.172	0.110	0.022	0.010	0	0.010	---	---	28
29	---	---	---	0.057	0.165	0.165	0.017	0.007	0.001	0.011	---	---	29
30	---		---	0.044	0.208	0.018	0.013	0.005	0	0.008	---	---	30
31	---		---		0.273		0.018	0.004		0.019A		---	31
TOTAL	---	---	---	1.104	2.091	2.376	0.561	0.332	0.043	0.242	---	---	TOTAL
MEAN	---	---	---	0.037	0.068	0.079	0.018	0.011	0.001	0.008	---	---	MEAN
MAX	---	---	---	0.116	0.273	0.250	0.044	0.060	0.004	0.019	---	---	MAX
MIN	---	---	---	0.014	0.014	0.003	0	0	0	0.001	---	---	MIN

SUMMARY FOR THE MONTHS APR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.032
MAXIMUM DAILY, 0.273 ON MAY 31
MINIMUM DAILY, 0 ON JUL 16
MAXIMUM INSTANTANEOUS,
1.82 AT 20:25 MST ON JUN 28

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 12 30 N
LONG 114 09 40 W

DRAINAGE AREA, 250 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	48.5
FEB	---	AUG	28.7
MAR	---	SEP	3.72
APR	95.4	OCT	20.9
MAY	181	NOV	---
JUN	205	DEC	---

TOTAL DISCHARGE, 583 dam³

BELLY - ST. MARY DIVERSION CANAL - STATION NO. 05AD021

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0E	0E	0E	0	2.97	15.6	61.6	45.0	0.192	33.0	0	0E	1
2	0E	0E	0E	0	4.70	15.7	62.0	42.5	0.154	33.8	0	0E	2
3	0E	0E	0E	0	4.80	15.6	62.1	42.4	0.138	33.5	0	0E	3
4	0E	0E	0E	0	5.03	14.9	61.8	41.8	3.45	36.9	0	0E	4
5	0E	0E	0E	0	5.05	15.1	61.1	40.8	8.57	40.1	0	0E	5
6	0E	0E	0E	0	4.87	15.3	63.5	40.1	8.79	43.7	0	0E	6
7	0E	0E	0E	0	5.12	15.0	63.9	39.0	7.87	42.5	0A	0E	7
8	0E	0E	0E	0	5.26	14.9	63.6	38.4	7.53	37.5	0E	0E	8
9	0E	0E	0E	0	5.24	15.1	59.5	36.5	7.69	30.2	0E	0E	9
10	0E	0E	0E	0	5.24	15.1	55.3	32.3	9.03	25.8	0E	0E	10
11	0E	0E	0E	0	5.21	14.5	55.1	31.8	10.7	22.8	0E	0E	11
12	0E	0E	0E	0	5.18	16.9	55.7	31.8	10.5	18.0	0E	0E	12
13	0E	0E	0E	0	5.21	20.2	55.7	31.6	10.4	14.0	0E	0E	13
14	0E	0E	0E	0	5.17	20.3	55.9	31.1	10.8	11.6	0E	0E	14
15	0E	0E	0E	0	5.16	20.1	55.6	30.7	10.9	5.10	0E	0E	15
16	0E	0E	0E	0	5.18	20.0	54.0	29.9	10.8	0	0E	0E	16
17	0E	0E	0E	0	5.22	20.0	49.6	29.8	15.3	0	0E	0E	17
18	0E	0E	0E	0	5.23	24.6	48.9	29.9	19.2	0	0E	0E	18
19	0E	0E	0E	0	5.30	32.9	48.4	29.8	20.2	0	0E	0E	19
20	0E	0E	0E	0	5.35	33.6	47.9	29.7	20.4	0	0E	0E	20
21	0E	0E	0E	0	5.15	33.9	46.8	29.8	20.1	0	0E	0E	21
22	0E	0E	0E	0	5.34	36.7	45.3	29.7	19.8	0	0E	0E	22
23	0E	0E	0E	0	9.21	39.4	43.6	29.5	19.4	0	0E	0E	23
24	0E	0E	0E	0	14.3	39.9	43.6	29.4	19.6	0	0E	0E	24
25	0E	0E	0E	0	15.3	40.2	47.5	29.3	23.9	0	0E	0E	25
26	0E	0E	0E	0.006	15.5	44.9	51.7	29.2	30.5	0	0E	0E	26
27	0E	0E	0A	0.006	15.4	52.7	51.6	29.6	34.5	0	0E	0E	27
28	0E	0E	0	0.017	15.4	57.4	51.2	29.6	34.8	0	0E	0E	28
29	0E		0	0.024	15.8	61.6	50.6	17.9	34.9	0	0E	0E	29
30	0E		0	0.338	15.8	61.5	49.5	11.6	34.0	0	0E	0E	30
31	0E		0		15.9		47.6	0.325		0		0E	31
TOTAL	0	0	0	0.391	243.59	843.6	1 670.2	965.825	464.114	428.50	0	0	TOTAL
MEAN	0	0	0	0.013	7.86	28.1	53.9	31.2	15.5	13.8	0	0	MEAN
MAX	0	0	0	0.338	15.9	61.6	63.9	45.0	34.9	43.7	0	0	MAX
MIN	0	0	0	0	2.97	14.5	43.6	0.325	0.138	0	0	0	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 12.6
MAXIMUM DAILY, 63.9 ON JUL 07
MINIMUM DAILY, 0E ON JAN 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 20 10 N
LONG 113 33 07 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED SINCE 1959

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	0	JUL	144 000
FEB	0	AUG	83 400
MAR	0	SEP	40 100
APR	33.8	OCT	37 000
MAY	21 000	NOV	0
JUN	72 900	DEC	0

TOTAL DISCHARGE, 398 000 dam³

BELLY RIVER NEAR GLENWOOD - STATION NO. 05AD041

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	3.50B	1.95B	3.40B	4.72	10.7	38.2	8.92	1.57	3.03	1.44	7.94	4.60B	1
2	3.25B	2.35B	3.70B	5.74	10.4	31.9	7.44	1.51	2.85	1.47	9.29	4.15B	2
3	2.30B	2.60B	3.80B	6.84	8.83	25.1	5.37	1.58	2.75	1.46	8.72	4.05B	3
4	2.56B	2.50B	3.63B	7.22	7.70	21.1	4.37	1.55	4.03	1.50	8.07	4.25B	4
5	2.85B	2.43B	3.50B	7.22	8.30	19.1	2.23	1.53	1.71	1.56	7.17	4.55B	5
6	3.25B	2.37B	3.40B	7.26	11.5	17.2	3.91	1.48	1.76	4.30	6.83	4.70B	6
7	3.45B	2.35B	3.30B	7.26	18.2	16.1	4.53	1.49	1.68	1.84	6.27	4.79B	7
8	3.60B	2.38B	3.20B	7.42	21.1	16.9	4.16	1.53	1.71	1.33	4.98	4.80B	8
9	3.62B	2.50B	3.10B	7.51	17.9	17.2	4.48	1.47	1.77	1.20	5.63	4.70B	9
10	3.50B	2.70B	3.00B	7.30B	15.2	18.5	3.61	1.44	1.79	1.19	6.49	4.40B	10
11	3.20B	3.00B	2.90B	7.50B	12.5	24.3	2.77	1.68	1.79	0.999	10.3	4.00B	11
12	3.12B	2.10B	2.80B	7.24	11.3	27.3	2.79	1.61	1.79	1.38	13.7	3.70B	12
13	3.29B	1.71B	2.72B	7.51	10.6	27.2	2.81	1.57	1.70	1.83	12.8	3.60B	13
14	3.39B	1.68B	2.87B	7.65	9.98	23.9	2.88	1.51	2.47	1.75	10.9	3.59B	14
15	2.85B	1.66B	2.93B	7.86	10.1	19.7	2.60	1.50	2.67	3.54	9.62	3.58B	15
16	2.60B	1.68B	3.00B	8.29	9.86	17.5	2.18	1.53	2.56	6.21	8.41	3.50B	16
17	2.33B	1.78B	2.90B	8.47	9.18	17.7	1.87	1.86	2.13	5.87	7.42	3.00B	17
18	2.50B	1.90B	2.82B	8.72	9.29	15.4	1.90	1.95	1.44	5.66	6.61	2.20B	18
19	2.70B	2.02B	3.20B	10.2	9.80	8.76	1.86	1.97	1.46	5.34	6.05	1.82B	19
20	2.90B	2.30B	3.50B	12.3	10.1	11.1	1.80	1.70	1.46	4.99	6.22	1.74B	20
21	3.01B	2.55B	3.30B	16.0	10.5	12.7	1.71	1.86	1.46	4.79	5.53	1.71B	21
22	3.12B	2.80B	3.15B	19.8	10.1	13.9	1.62	1.72	1.48	4.67	5.02	1.70B	22
23	3.13B	3.08B	3.00B	21.7	9.68	16.9	1.67	1.55	1.44	4.16	5.08	1.75B	23
24	3.11B	3.00B	2.83B	22.9	13.6	20.7	1.67	1.56	1.44	3.94	4.10B	1.90B	24
25	2.65B	2.93B	3.10B	22.1	24.1	22.7	2.15	1.64	1.52	4.10	2.80B	1.99B	25
26	2.35B	2.91B	3.40B	20.3	25.5	21.6	5.51	1.62	1.55	3.88	3.55B	1.88B	26
27	2.15B	2.90B	3.76B	17.8	22.3	19.8	4.17	1.58	2.11	4.33	4.50B	1.74B	27
28	1.95B	3.15B	3.70	17.3	19.8	13.7	3.06	1.52	1.53	4.60	5.25B	1.65B	28
29	1.80B		3.55	14.9	29.9	9.91	2.12	1.19	1.53	4.86	5.51B	1.67B	29
30	1.72B		3.62	10.1	37.8	8.68	1.70	2.45	1.49	4.97	5.30B	1.77B	30
31	1.70B		4.12		40.3		1.64	4.00		5.44		1.90B	31
TOTAL	87.45	67.28	101.22	337.03	476.12	574.95	95.47	52.72	56.10	104.599	210.06	95.38	TOTAL
MEAN	2.82	2.40	3.27	11.2	15.4	19.2	3.08	1.70	1.87	3.37	7.00	3.08	MEAN
MAX	3.62	3.15	4.12	22.9	40.3	38.2	8.92	4.00	3.03	6.21	13.7	4.80	MAX
MIN	1.70	1.66	2.72	4.72	7.70	8.68	1.62	1.19	1.44	0.999	2.80	1.65	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 6.19
MAXIMUM DAILY, 40.3 ON MAY 31
MINIMUM DAILY, 0.999 ON OCT 11
MAXIMUM INSTANTANEOUS,
41.5 AT 13:15 MST ON MAY 31

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 21 08 N
LONG 113 28 49 W
DRAINAGE AREA, 657 km²

B - ICE CONDITIONS

REGULATED SINCE 1935

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	7 560	JUL	8 250
FEB	5 810	AUG	4 560
MAR	8 750	SEP	4 850
APR	29 100	OCT	9 040
MAY	41 100	NOV	18 100
JUN	49 700	DEC	8 240

TOTAL DISCHARGE, 195 000 dam³

BELLY RIVER NEAR MOUNTAIN VIEW - STATION NO. 05AD005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	3.22B	2.00B	6.66B	4.41	12.0	35.3	27.4	11.7	3.90	1.93	9.63	4.05B	1
2	3.03B	2.85B	5.75B	5.66	12.0	29.4	27.6	10.7	3.80	2.15	10.1	3.55B	2
3	2.78B	3.30B	5.26B	6.82	11.4	24.2	27.0	10.2	3.72	2.12	9.12	3.33B	3
4	2.98B	3.27B	4.81B	7.03	11.6	22.0	23.7	9.40	3.67	3.13	7.95	3.40B	4
5	3.03B	3.04B	4.25B	6.97	13.7	20.7	21.0	8.76	3.61	12.9	6.99	3.48B	5
6	2.98B	2.73B	3.78B	6.93	19.2	20.0	20.8	8.33	3.54	14.5	6.39	3.55B	6
7	2.87B	2.45B	3.49B	6.90	24.5	20.0	20.7	7.95	3.48	12.1	5.60	3.55B	7
8	2.81B	2.19B	3.12B	7.09	24.1	20.2	19.4	7.77	3.44	8.73	5.27	3.52B	8
9	2.78B	2.26B	2.75B	6.93	21.0	20.3	18.3	7.58	3.41	6.55	5.94	3.40B	9
10	3.68B	2.42B	2.71B	6.78B	16.5	22.8	18.2	7.28	3.35	6.64	6.54	3.18B	10
11	5.30B	2.15B	2.49B	6.45	16.4	27.8	18.9	7.07	2.95	7.08	14.0	2.88B	11
12	5.25B	1.98B	2.47B	6.47	15.5	27.9	19.2	6.82	1.99	6.81	15.4	2.68B	12
13	4.99B	1.49B	2.58B	6.44	14.6	24.6	19.5	6.58	2.06	6.30	13.6	2.75B	13
14	4.90B	1.28B	2.86B	6.74	14.2	21.3	19.5	6.32	2.02	5.64	11.7	2.80B	14
15	4.61B	1.12B	2.58B	7.21	14.5	19.7	18.4	6.15	1.85	5.70	10.2	2.95B	15
16	4.22B	1.12B	2.61B	7.82	13.9	19.1	16.7	6.17	1.71	5.98	8.75	2.85B	16
17	3.77B	1.24B	2.56B	7.83	13.7	19.9	15.5	6.07	1.52	5.67	7.68	2.67B	17
18	3.38B	1.56B	3.00B	8.82	14.1	21.7	14.8	5.92	1.32	5.47	6.92	2.30B	18
19	3.05B	1.73B	2.66B	11.2	14.5	24.2	14.0	5.60	1.21	4.94	6.29B	2.08B	19
20	2.61B	2.16B	2.92B	13.9	15.0	27.3	13.1	6.39	1.21	4.64	5.80	1.92B	20
21	2.45B	2.49B	3.10B	17.9	15.4	29.3	11.7	6.15	1.11	4.62	5.73B	1.73B	21
22	2.52B	2.48B	2.61B	20.0	15.3	29.2	10.5	5.84	1.50	4.23	5.62B	1.65B	22
23	2.71B	2.28B	3.06B	22.5	16.5	31.0	9.96	5.56	1.69	3.97	5.42B	1.85B	23
24	2.75B	2.20B	3.21B	22.5	21.9	34.6	10.3	5.48	1.57	3.97	5.20B	2.12B	24
25	2.69B	2.18B	3.41B	21.6	28.3	35.9	10.8	5.67	1.49	3.88	4.60B	2.20B	25
26	2.60B	2.29B	3.13B	19.7	27.2	35.7	21.1	5.28	1.80	4.15	5.00B	2.11B	26
27	2.32B	4.71B	2.84B	17.3	24.0	34.2	19.3	4.76	2.09	4.46	5.22B	1.71B	27
28	2.13B	5.25B	2.74	16.1	23.0	31.2	17.6	4.26	2.11	4.80	5.08B	1.45B	28
29	1.92B		2.83	13.9	31.1	27.7	15.6	3.97	2.12	4.87	4.78B	1.32B	29
30	1.67B		3.19	12.5	36.6	26.0	14.0	4.11	2.03	5.01	4.52B	1.03B	30
31	1.58B		3.76		38.9		13.0	4.18		6.63		2.10B	31
TOTAL	97.58	66.22	103.19	332.90	592.6	783.2	555.56	208.02	71.27	179.57	227.04	81.04	TOTAL
MEAN	3.15	2.37	3.33	11.1	19.1	26.1	17.9	6.71	2.38	5.79	7.57	2.61	MEAN
MAX	5.30	5.25	6.66	22.5	38.9	35.9	27.6	11.7	3.90	14.5	15.4	4.05	MAX
MIN	1.58	1.12	2.47	4.41	11.4	19.1	9.96	3.97	1.11	1.93	4.52	1.32	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 9.04
MAXIMUM DAILY, 38.9 ON MAY 31
MINIMUM DAILY, 1.11 ON SEP 21
MAXIMUM INSTANTANEOUS,
39.4 AT 07:25 MST ON MAY 31

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 06 00 N
LONG 113 41 48 W
DRAINAGE AREA, 319 km²

B - ICE CONDITIONS

REGULATED SINCE 1935

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	8 430	JUL	48 000
FEB	5 720	AUG	18 000
MAR	8 920	SEP	6 160
APR	28 800	OCT	15 500
MAY	51 200	NOV	19 600
JUN	67 700	DEC	7 000

TOTAL DISCHARGE, 285 000 dam³

BERLAND RIVER NEAR THE MOUTH - STATION NO. 07AC007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	11.3 B	14.6B	22.9	320 E	70.6	58.4	50.5	31.7	---	---	1
2	---	---	10.5 B	15.4B	25.8	280 E	73.5	56.7	49.0	30.7	---	---	2
3	---	---	10.6 B	16.1B	28.1	230 E	102	51.3	44.7	30.0	---	---	3
4	---	---	10.8 B	16.5B	28.4	218 E	191	48.6	40.3	30.1	---	---	4
5	---	---	10.9 B	16.8B	28.1	218 E	185	45.3	37.8	30.9	---	---	5
6	---	---	11.1 B	16.8B	28.1	195 E	179	42.4	35.1	30.3	---	---	6
7	---	---	11.3 B	17.3B	29.9	180 E	410	39.1	33.0	29.3	---	---	7
8	---	---	9.44B	17.4B	30.7	150 E	471	37.4	31.1	28.8	---	---	8
9	---	---	9.63B	16.9B	28.3	137 E	330	36.0	29.6	28.9	---	---	9
10	---	---	9.29B	15.3B	27.2	130 E	246	34.5	28.3	30.1	---	---	10
11	---	---	9.48B	15.3B	27.0	150 E	194	33.3	27.4	31.4	---	---	11
12	---	---	9.50B	16.4B	27.2	250 E	160	31.7	27.4	31.0	---	---	12
13	---	---	9.25B	17.2B	29.5	340 E	139	30.3	27.9	30.1	---	---	13
14	---	8.91B	9.20B	16.8B	33.4	332 A	123	30.5	26.7	29.0	---	---	14
15	---	---	9.10B	16.5B	34.5	250 E	109	31.0	27.7	26.8	---	---	15
16	---	---	8.90B	18.0B	35.2	175 E	98.8	32.7	27.9	25.6B	---	---	16
17	---	---	9.60B	18.7B	35.7	172 E	91.4	33.5	30.1	24.3B	---	---	17
18	---	---	10.7 B	20.6B	38.9	180 E	84.0	36.0	31.9	24.4B	---	---	18
19	---	---	10.4 B	23.9B	43.7	188 E	78.7	38.1	66.1	24.5B	---	---	19
20	---	---	11.3 B	26.1B	49.2	175 E	76.1	35.1	57.5	23.3B	---	---	20
21	---	---	10.8 B	28.8B	53.0	165 E	70.8	31.7	52.3	22.6B	---	---	21
22	---	---	10.4 B	28.7	55.8	155 E	66.0	30.1	48.4	23.1B	---	---	22
23	---	---	10.2 B	29.3	60.0	175 E	61.6	28.6	45.1	21.7B	---	---	23
24	---	---	10.0 B	29.8	56.6	188 E	59.0	28.9	42.7	22.5B	---	---	24
25	---	---	10.5 B	33.6	59.1	195 E	69.5	28.7	40.2	22.5	---	---	25
26	---	---	10.7 B	34.1	79.2	120 E	67.9	30.2	37.9	23.0	---	---	26
27	---	---	10.9 B	31.8	96.9	84.1A	66.1	39.5	36.1	23.2	---	---	27
28	---	---	11.4 B	27.8	90.5	77.5	67.2	42.2	34.7	23.6	---	---	28
29	---		11.8 B	24.5	87.0	75.4	60.8	37.4	33.7	23.7	---	---	29
30	---		12.0 B	22.8	90.6A	74.2	56.7	34.7	32.5	23.0B	---	---	30
31	---		13.8 B		116 E		54.4	39.5		20.9B		---	31
TOTAL	---	---	325.59	645.8	1 476.5	5 579.2	4 112.1	1 157.2	1 183.6	822.0	---	---	TOTAL
MEAN	---	---	10.5	21.5	47.6	186	133	37.3	39.5	26.5	---	---	MEAN
MAX	---	---	13.8	34.1	116	340	471	58.4	71.9	31.7	---	---	MAX
MIN	---	---	8.90	14.6	22.9	74.2	54.4	28.6	27.4	20.9	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 62.5
MAXIMUM DAILY, 471 ON JUL 08
MINIMUM DAILY, 8.90B ON MAR 16
MAXIMUM INSTANTANEOUS,
356 AT 02:55 MST ON JUL 08

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 00 47 N
LONG 116 57 47 W
DRAINAGE AREA, 4 740 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	355 000
FEB	---	AUG	100 000
MAR	28 100	SEP	102 000
APR	55 800	OCT	71 000
MAY	128 000	NOV	---
JUN	482 000	DEC	---

TOTAL DISCHARGE, 1 320 000 dam³

BERRY CREEK BELOW DEADFISH CREEK - STATION NO. 05CH016

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.005B	0.122B	0.040	0.477	0.444	1.11	0.063	0.006	---	---	1
2	---	---	0.008B	0.140B	0.038	0.570	0.433	1.01	0.068	0.019	---	---	2
3	---	---	0.015B	0.174B	0.041	0.624	0.485	0.779	0.075	0.030	---	---	3
4	---	---	0.021B	0.214B	0.035	0.908	0.446	0.595	0.082	0.012	---	---	4
5	---	---	0.025B	0.181B	0.035	1.03	0.420	0.444	0.067	0.001	---	---	5
6	---	---	0.030B	0.187B	0.044	1.05	0.411	0.324	0.050	0.029	---	---	6
7	---	---	0.035B	0.164	0.062	0.950	0.486	0.241	0.102	0.062	---	---	7
8	---	---	0.045B	0.149	0.042	0.840	0.507	0.340	0.270	0.066	---	---	8
9	---	---	0.056B	0.131B	0.045	0.690	0.520	0.488	0.241	0.063	---	---	9
10	---	---	0.064B	0.123B	0.064	0.618	0.502	0.494	0.213	0.075	---	---	10
11	---	---	0.051B	0.109	0.062	0.515	0.492	0.665	0.250	0.095	---	---	11
12	---	---	0.041B	0.102	0.069	0.530	0.711	0.697	0.325	0.096	---	---	12
13	---	---	0.035B	0.097	0.073	0.570	0.778	1.06	0.335	0.097	---	---	13
14	---	---	0.030B	0.092	0.079	0.482	0.830	0.848	0.332	0.106	---	---	14
15	---	---	0.024B	0.084	0.081	0.497	1.14	0.776	0.238	0.105	---	---	15
16	---	---	0.018B	0.073	0.073	0.447	0.918	0.771	0.069	0.103	---	---	16
17	---	---	0.016B	0.069	0.264	0.374	0.982	0.599	0.023	0.119	---	---	17
18	---	---	0.024B	0.069	0.574	0.607	1.03	0.543	0.028	0.126	---	---	18
19	---	---	0.033B	0.071	0.595	0.924	1.04	0.436	0.023	0.130	---	---	19
20	---	---	0.048B	0.078	0.502	1.02	1.04	0.266	0.018	0.141	---	---	20
21	---	---	0.041B	0.084	0.507	1.01	1.00	0.234	0.023	0.140	---	---	21
22	---	---	0.030B	0.077	0.549	0.939	1.09	0.204	0.024	0.143	---	---	22
23	---	---	0.016B	0.068	0.695	0.901	1.09	0.179	0.024	0.146	---	---	23
24	---	---	0.016B	0.061	0.509	0.899	1.04	0.159	0.038	0.143	---	---	24
25	---	---	0.027B	0.057	0.425	1.09	1.07	0.142	0.023	0.141	---	---	25
26	---	---	0.036B	0.059	0.366	1.33	1.13	0.129	0.019	0.141	---	---	26
27	---	---	0.052B	0.059	0.379	1.35	1.15	0.119	0.017	0.307	---	---	27
28	---	0.003B	0.067B	0.060	0.391	1.30	1.15	0.103	0.012	0.304	---	---	28
29	---		0.089B	0.050	0.700	0.600	1.20	0.070	0.008	0.274A	---	---	29
30	---		0.104B	0.037	0.744	0.498	1.20	0.062	0.006	0.274E	---	---	30
31	---		0.122B		0.666		1.23	0.064		0.274E		---	31
TOTAL	---	---	1.224	3.041	8.749	23.640	25.965	13.951	3.066	3.768	---	---	TOTAL
MEAN	---	---	0.040	0.101	0.282	0.788	0.838	0.450	0.102	0.122	---	---	MEAN
MAX	---	---	0.122	0.214	0.744	1.35	1.23	1.11	0.335	0.307	---	---	MAX
MIN	---	---	0.005	0.037	0.035	0.374	0.411	0.062	0.006	0.001	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.340
MAXIMUM DAILY, 1.35 ON JUN 27
MINIMUM DAILY, 0.001 ON OCT 05
MAXIMUM INSTANTANEOUS,
1.38 AT 22:21 MST ON JUN 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 56 09 N
LONG 111 45 59 W
DRAINAGE AREA, 2 480 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2 240
FEB	---	AUG	1 210
MAR	106	SEP	265
APR	263	OCT	326
MAY	756	NOV	---
JUN	2 040	DEC	---

TOTAL DISCHARGE, 7 210 dam³

BERRY CREEK NEAR ROSE LYNN - STATION NO. 05CH008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0	0.936	0	0	0	0	0	0	---	---	1
2	---	---	0	1.27	0	0	0	0	0	0	---	---	2
3	---	---	0	0.516	0	0	0	0	0	0	---	---	3
4	---	---	0	0.244	0	0	0	0	0	0	---	---	4
5	---	---	0	0.142	0	0	0	0	0	0	---	---	5
6	---	---	0	0.092	0	0	0	0	0	0	---	---	6
7	---	---	0	0.074	0	0	0	0	0	0	---	---	7
8	---	---	0	0.057	0	0	0	0	0	0	---	---	8
9	---	---	0	0.040	0	0	0	0	0	0	---	---	9
10	---	---	0	0.036	0	0	0	0	0	0	---	---	10
11	---	---	0	0.025	0	0	0	0	0	0	---	---	11
12	---	---	0	0.018	0	0	0	0	0	0	---	---	12
13	---	---	0	0.012	0	0	0	0	0	0	---	---	13
14	---	---	0	0.009	0	0	0	0	0	0	---	---	14
15	---	---	0	0.009	0	0	0	0	0	0	---	---	15
16	---	---	0	0.007	0	0	0	0	0	0	---	---	16
17	---	---	0	0.005	0	0	0	0	0	0	---	---	17
18	---	---	0	0.003	0	0	0	0	0	0	---	---	18
19	---	---	0	0.001	0	0	0	0	0	0	---	---	19
20	---	---	0	0	0	0	0	0	0	0	---	---	20
21	---	---	0	0	0	0	0	0	0	0	---	---	21
22	---	0A	0	0	0	0	0	0	0	0	---	---	22
23	---	0	0	0	0	0	0	0	0	0	---	---	23
24	---	0	0	0	0	0	0	0	0	0	---	---	24
25	---	0	0	0	0	0	0	0	0	0	---	---	25
26	---	0	0	0	0	0	0	0	0	0	---	---	26
27	---	0	0	0	0	0	0	0	0	0	---	---	27
28	---	0	0	0	0	0	0	0	0	0	---	---	28
29	---		0	0	0	0	0	0	0	0A	---	---	29
30	---		0	0	0	0	0	0	0	0A	---	---	30
31	---		0.550		0		0	0		0E		---	31
TOTAL	---	---	0.550	3.496	0	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.018	0.117	0	0	0	0	0	0	---	---	MEAN
MAX	---	---	0.550	1.27	0	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.017
MAXIMUM DAILY, 1.27 ON APR 02
MINIMUM DAILY, 0 ON MAR 01
MAXIMUM INSTANTANEOUS,
1.98 AT 03:38 MST ON APR 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 24 56 N
LONG 111 29 41 W
DRAINAGE AREA, 1 550 km²
A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	47.5	SEP	0
APR	302	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 350 dam³

BERRY CREEK NEAR THE MOUTH - STATION NO. 05CH007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.008B	0.246B	0.059	0.202	0.227	0.916	0.055	0.004	---	---	1
2	---	---	0.005B	0.290B	0.055	0.174	0.122	0.680	0.049	0.001	---	---	2
3	---	---	0.014B	0.273B	0.046	0.077	0.088	0.485	0.047	0.004	---	---	3
4	---	---	0.024B	0.270B	0.047	0.027	0.083	0.440	0.040	0.003	---	---	4
5	---	---	0.022B	0.212B	0.039	0.049	0.082	0.340	0.027	0.002	---	---	5
6	---	---	0.018B	0.230B	0.032	0.239	0.083	0.325	0.011	0.017	---	---	6
7	---	---	0.027B	0.303	0.029	0.381	0.068	0.202	0.003	0.016	---	---	7
8	---	---	0.037B	0.296	0.020	0.342	0.111	0.088	0.007	0.007	---	---	8
9	---	---	0.062B	0.285	0.018	0.329	0.092	0.050	0.006	0.005	---	---	9
10	---	---	0.056B	0.258	0.041	0.379	0.094	0.020	0.001	0.001	---	---	10
11	---	---	0.045B	0.221	0.091	0.343	0.140	0.005	0.001	0.005	---	---	11
12	---	---	0.032B	0.193	0.103	0.337	0.093	0.001	0.001	0.020	---	---	12
13	---	---	0.054B	0.171	0.107	0.422	0.044	0.001	0.004	0.013	---	---	13
14	---	---	0.044B	0.156	0.103	0.412	0.038	0.009	0.001	0.005	---	---	14
15	---	---	0.039B	0.150	0.111	0.408	0.014	0.276	0.001	0.004	---	---	15
16	---	---	0.040B	0.119	0.109	0.365	0.001	0.368	0.001	0.004	---	---	16
17	---	---	0.050B	0.117	0.106	0.247	0.001	0.266	0.001	0.004	---	---	17
18	---	---	0.100B	0.116	0.086	0.167	0.001	0.355	0.003	0.004	---	---	18
19	---	---	0.090B	0.098	0.111	0.135	0.001	0.415	0.001	0.003	---	---	19
20	---	---	0.100B	0.091	0.106	0.093	0.001	0.361	0.003	0.003	---	---	20
21	---	---	0.113B	0.082	0.323	0.033	0.003	0.337	0.001	0.004	---	---	21
22	---	---	0.080B	0.076	0.314	0.032	0.001	0.247	0.001	0.005	---	---	22
23	---	---	0.060B	0.073	0.302	0.088	0.030	0.188	0.002	0.005	---	---	23
24	---	---	0.069B	0.070	0.205	0.052	0.167	0.169	0.008	0.005	---	---	24
25	---	---	0.061B	0.066	0.377	0.029	0.064	0.146	0.002	0.004	---	---	25
26	---	---	0.066B	0.056	0.282	0.005	0.058	0.087	0.001	0.003	---	---	26
27	---	0.002B	0.128B	0.059	0.213	0.001	0.144	0.072	0.001	0.004	---	---	27
28	---	0.003B	0.277B	0.109	0.167	0.174	0.106	0.150	0.001	0.004	---	---	28
29	---		0.276B	0.101	0.173	0.388	0.147	0.115	0.001	0.002	---	---	29
30	---		0.279B	0.081	0.129	0.366	0.460	0.093	0.001	0.002	---	---	30
31	---		0.237B		0.117		0.647	0.075		0.002A		---	31
TOTAL	---	---	2.513	4.868	4.021	6.296	3.211	7.282	0.282	0.165	---	---	TOTAL
MEAN	---	---	0.081	0.162	0.130	0.210	0.104	0.235	0.009	0.005	---	---	MEAN
MAX	---	---	0.279	0.303	0.377	0.422	0.647	0.916	0.055	0.020	---	---	MAX
MIN	---	---	0.005	0.056	0.018	0.001	0.001	0.001	0.001	0.001	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.117
MAXIMUM DAILY, 0.916 ON AUG 01
MINIMUM DAILY, 0.001 ON JUN 27
MAXIMUM INSTANTANEOUS,
1.18 AT 14:18 MST ON AUG 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 51 18 N
LONG 111 35 26 W
DRAINAGE AREA, 3 720 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	277
FEB	---	AUG	629
MAR	217	SEP	24.4
APR	421	OCT	14.3
MAY	347	NOV	---
JUN	544	DEC	---

TOTAL DISCHARGE, 2 470 dam³

BERRY CREEK RESERVOIR NEAR SUNNYNOOK - STATION NO. 05CH014

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	731.797	731.951	732.248	732.303	732.346	731.731	732.028	732.009	---	---	1
2	---	---	731.797	731.985	732.251	732.321	732.334	731.727	732.055	732.019	---	---	2
3	---	---	731.798	732.010	732.253	732.324	732.317	731.730	732.070	732.003	---	---	3
4	---	---	731.799	732.033	732.253	732.325	732.317	731.735	732.089	732.017	---	---	4
5	---	---	731.796	732.042	732.252	732.354	732.312	731.734	732.117	732.038	---	---	5
6	---	---	731.800	732.050	732.242	732.375	732.322	731.734	732.139	732.056	---	---	6
7	---	---	731.797	732.051	732.231	732.386	732.329	731.741	732.152	732.082	---	---	7
8	---	---	731.798	732.052	732.228	732.396	732.328	731.739	732.158	732.109	---	---	8
9	---	---	731.797	732.053	732.219	732.406	732.315	731.743	732.141	732.118	---	---	9
10	---	---	731.802	732.053	732.226	732.413	732.305	731.744	732.140	732.120	---	---	10
11	---	---	731.802	732.057	732.212	732.380	732.289	731.753	732.136	732.108	---	---	11
12	---	---	731.806	732.061	732.215	732.397	732.261	731.757	732.129	732.109	---	---	12
13	---	---	731.815	732.064	732.212	732.414	732.238	731.768	732.113	732.104	---	---	13
14	---	---	731.816	732.068	732.216	732.408	732.197	731.771	732.113	732.103	---	---	14
15	---	---	731.815	732.068	732.214	732.409	732.152	731.775	732.102	732.101	---	---	15
16	---	---	731.818	732.064	732.201	732.418	732.119	731.781	732.092	732.090	---	---	16
17	---	---	731.819	732.067	732.189	732.419	732.071	731.783	732.089	732.075	---	---	17
18	---	---	731.818	732.076	732.172	732.424	732.028	731.792	732.079	732.073	---	---	18
19	---	---	731.818	732.100	732.154	732.423	732.007	731.807	732.083	732.070	---	---	19
20	---	---	731.821	732.135	732.134	732.422	731.983	731.823	732.066	732.056	---	---	20
21	---	---	731.819	732.166	732.106	732.431	731.960	731.841	732.063	732.049	---	---	21
22	---	731.805A	731.817	732.201	732.121	732.426	731.938	731.856	732.053	732.048	---	---	22
23	---	731.806	731.820	732.237	732.143	732.423	731.915	731.873	732.055	732.042	---	---	23
24	---	731.797	731.821	732.268	732.159	732.414	731.897	731.880	732.052	732.042	---	---	24
25	---	731.800	731.825	732.269	732.177	732.405	731.869	731.893	732.055	732.038	---	---	25
26	---	731.800	731.826	732.263	732.189	732.392	731.850	731.912	732.048	732.045	---	---	26
27	---	731.796	731.827	732.254	732.212	732.383	731.828	731.935	732.039	732.031	---	---	27
28	---	731.795	731.836	732.262	732.240	732.368	731.802	731.954	732.024	732.037	---	---	28
29	---		731.870	732.259	732.296	732.350	731.778	731.971	732.026	732.037	---	---	29
30	---		731.904	732.249	732.373	732.354	731.752	731.988	732.019	732.029A	---	---	30
31	---		731.932		732.294		731.733	732.008		732.029E		---	31
MEAN	---	---	731.820	732.116	732.209	732.389	732.093	731.816	732.084	732.061	---	---	MEAN
MAX	---	---	731.932	732.269	732.294	732.431	732.346	732.008	732.158	732.120	---	---	MAX
MIN	---	---	731.796	731.951	732.106	732.303	731.733	731.727	732.019	732.003	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 732.431 ON JUN 21

MAXIMUM INSTANTANEOUS,
732.445 AT 16:10 MST ON JUN 21

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 15 44 N
LONG 111 38 22 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

DRAINAGE AREA,
1 900 km²

BERRY CREEK RESERVOIR OUTLET - STATION NO. 05CH011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	OB	0 E	0.005	0.489	0.427	0.943	0.087	0	---	---	1
2	---	---	OB	0 E	0.005	0.482	0.413	0.851	0.092	0	---	---	2
3	---	---	OB	0 E	0.005	0.479	0.367	0.675	0.089	0	---	---	3
4	---	---	OB	0 E	0.004	0.491	0.340	0.672	0.092	0	---	---	4
5	---	---	OB	0 E	0.004	0.485	0.404	0.677	0.095	0	---	---	5
6	---	---	OB	0 E	0.003	0.479	0.428	0.680	0.078	0	---	---	6
7	---	---	OB	0 E	0.003	0.484	0.476	0.665	0.006	0	---	---	7
8	---	---	OB	0 E	0.003	0.490	0.650	0.670	0.001	0	---	---	8
9	---	---	OB	0 E	0.003	0.550	0.663	0.677	0	0	---	---	9
10	---	---	OB	0 E	0.003	0.616	0.646	0.683	0	0	---	---	10
11	---	---	OB	0 E	0.003	0.616	0.698	0.653	0	0	---	---	11
12	---	---	OB	0 E	0.004	0.616	1.11	0.658	0	0	---	---	12
13	---	---	OB	0 E	0.005	0.572	1.13	0.515	0	0	---	---	13
14	---	---	OB	0 E	0.005	0.565	1.39	0.512	0	0	---	---	14
15	---	---	OB	0 E	0.005	0.503	1.40	0.515	0	0.002	---	---	15
16	---	---	OB	0 E	0.126	0.523	1.41	0.486	0	0.168	---	---	16
17	---	---	OB	0 E	0.242	0.540	1.42	0.348	0	0.180	---	---	17
18	---	---	OB	0 E	0.317	0.556	1.42	0.347	0	0.147	---	---	18
19	---	---	OB	0.001A	0.324	0.555	1.42	0.292	0	0.115	---	---	19
20	---	---	OB	0.001	0.524	0.496	1.42	0.137	0	0.118	---	---	20
21	---	---	OB	0.001	0.484	0.434	1.40	0.117	0	0.115	---	---	21
22	---	OB	OB	0.002	0.386	0.431	1.41	0.120	0	0.097	---	---	22
23	---	OB	OB	0.002	0.388	0.437	1.43	0.123	0	0.005	---	---	23
24	---	OB	OB	0.002	0.400	0.436	1.44	0.122	0	0.001	---	---	24
25	---	OB	OB	0.001	0.389	0.436	1.44	0.116	0	0	---	---	25
26	---	OB	OB	0.001	0.321	0.436	1.45	0.116	0	0	---	---	26
27	---	OB	OB	0.002	0.116	0.432	1.46	0.097	0	0	---	---	27
28	---	OB	OB	0.006	0.266	0.432	1.46	0.100	0	0	---	---	28
29	---		OB	0.008	0.365	0.430	1.45	0.102	0	0	---	---	29
30	---		OB	0.006	0.401	0.432	1.36	0.092	0	0 A	---	---	30
31	---		OB		0.478		1.35	0.068		0 E		---	31
TOTAL	---	---	0	0.033	6.307	14.925	33.282	12.829	0.540	0.948	---	---	TOTAL
MEAN	---	---	0	0.001	0.204	0.498	1.07	0.414	0.018	0.031	---	---	MEAN
MAX	---	---	0	0.008	0.542	0.616	1.46	0.943	0.095	0.180	---	---	MAX
MIN	---	---	0	0	0.003	0.430	0.340	0.068	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.281
MAXIMUM DAILY, 1.46 ON JUL 27
MINIMUM DAILY, OB ON MAR 01
MAXIMUM INSTANTANEOUS,
1.47 AT 22:41 MST ON JUL 28

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 14 23 N
LONG 111 37 51 W
DRAINAGE AREA, 1 930 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1983

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	2 880
FEB	---	AUG	1 110
MAR	0	SEP	46.7
APR	2.85	OCT	81.9
MAY	545	NOV	---
JUN	1 290	DEC	---

TOTAL DISCHARGE, 5 960 dam³

BIGELOW RESERVOIR NEAR WIMBORNE - STATION NO. 05CE901

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	882.011E	882.333	882.387	882.374	882.282	882.166	882.110	---	---	1
2	---	---	---	882.143E	882.331	882.440E	882.368	882.280	882.166	882.109	---	---	2
3	---	---	---	882.276E	882.354	882.480E	882.370	882.269	882.166	882.106	---	---	3
4	---	---	---	882.408A	882.345	882.560E	882.369	882.256	882.167	882.103	---	---	4
5	---	---	---	882.410E	882.336	882.750E	882.367	882.246	882.168	882.104	---	---	5
6	---	---	---	882.411A	882.327	882.750E	882.382	882.238	882.168	882.104	---	---	6
7	---	---	---	882.398E	882.321	882.680E	882.401	882.226	882.168	882.104	---	---	7
8	---	---	---	882.384E	882.317	882.620E	882.404	882.213	882.167	882.104	---	---	8
9	---	---	---	882.371E	882.312	882.580E	882.401	882.201	882.163	882.105	---	---	9
10	---	---	---	882.357A	882.310	882.540E	882.389	882.189	882.161	882.107	---	---	10
11	---	---	---	882.354A	882.309	882.560E	882.373	882.176	882.158	882.108	---	---	11
12	---	---	---	882.350E	882.310	882.680E	882.359	882.164	882.157	882.109	---	---	12
13	---	---	---	882.345E	882.312	882.790E	882.347	882.151	882.159	882.109	---	---	13
14	---	---	---	882.341E	882.313	882.750E	882.336	882.137	882.159	882.109	---	---	14
15	---	---	---	882.336E	882.314	882.680E	882.326	882.125	882.158	882.109	---	---	15
16	---	---	---	882.332E	882.314	882.620E	882.319	882.119	882.156	882.109	---	---	16
17	---	---	---	882.327A	882.313	882.580E	882.316	882.122	882.155	882.109	---	---	17
18	---	---	---	882.325E	882.313	882.540E	882.311	882.128	882.152	882.109	---	---	18
19	---	---	---	882.324E	882.312	882.520E	882.308	882.131	882.149	882.109	---	---	19
20	---	---	---	882.322E	882.310	882.510E	882.303	882.131	882.146	882.110	---	---	20
21	---	---	---	882.320E	882.315	882.490E	882.299	882.131	882.143	882.112	---	---	21
22	---	---	---	882.318E	882.326	882.480E	882.294	882.132	882.138	882.115	---	---	22
23	---	---	---	882.317E	882.334	882.481	882.291	882.139	882.134	882.118	---	---	23
24	---	---	---	882.315A	882.341	882.459	882.288	882.144	882.132	882.120	---	---	24
25	---	---	---	882.307	882.351	882.439	882.287	882.147	882.131	882.122	---	---	25
26	---	---	---	882.317	882.358	882.422	882.286	882.154	882.128	882.124	---	---	26
27	---	---	---	882.326	882.364	882.408	882.285	882.160	882.125	882.125	---	---	27
28	---	---	881.482A	882.333	882.372	882.398	882.283	882.163	882.119	882.126	---	---	28
29	---		881.614E	882.337	882.380	882.389	882.281	882.165	882.114	882.127	---	---	29
30	---		881.747E	882.338	882.385	882.381	882.277	882.167	882.113	882.127	---	---	30
31	877.878A		881.879E		882.386		882.275	882.167		882.136A		---	31
MEAN	---	---	---	882.325	882.333	882.545	882.331	882.176	882.150	882.113	---	---	MEAN
MAX	---	---	---	882.411	882.386	882.790	882.404	882.282	882.168	882.136	---	---	MAX
MIN	---	---	---	882.011	882.309	882.381	882.275	882.119	882.113	882.103	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 882.790E ON JUN 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 53 15 N
LONG 113 27 50 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA, 413 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

BIGKNIFE CREEK NEAR GADSBY - STATION NO. 05FC002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	2.93	0.018	0.164	0.015	0.033	0.001	0.001	---	---	1
2	---	---	0 B	2.70	0.019	2.73	0.018	0.032	0.001	0.001	---	---	2
3	---	---	0 B	2.14	0.015	0.465	2.61	0.030	0.001	0.001	---	---	3
4	---	---	0.001B	1.66	0.013	0.059	2.20	0.029	0.001	0.001	---	---	4
5	---	---	0.001B	1.31	0.010	0.056	5.68	0.028	0.001	0.001	---	---	5
6	---	---	0.001B	0.938	0.009	0.031	6.54	0.025	0.001	0.001	---	---	6
7	---	---	0.001B	0.704	0.009	0.023	8.97	0.022	0.001	0.001	---	---	7
8	---	---	0.029B	0.554	0.006	0.018	4.44	0.020	0.001	0.001	---	---	8
9	---	---	0.146B	0.421	0.001	0.015	4.18	0.019	0.001	0.001	---	---	9
10	---	---	0.102B	0.298	0	0.017	2.54	0.016	0.001	0.001	---	---	10
11	---	---	0.107B	0.246	0	0.023	1.63	0.013	0.001	0.001	---	---	11
12	---	---	0.255B	0.225	0	0.103	0.966	0.010	0.001	0.001	---	---	12
13	---	---	0.756B	0.214	0	0.720	0.465	0.010	0.001	0.001	---	---	13
14	---	---	0.576B	0.197	0	0.848	0.180	0.011	0.001	0.001	---	---	14
15	---	---	0.351B	0.185	0	2.97	0.061	0.010	0.001	0.001	---	---	15
16	---	---	0.244B	0.157	0	1.99	0.059	0.010	0.001	0.001	---	---	16
17	---	---	0.272B	0.149	0	1.14	0.043	0.010	0.001	0.001	---	---	17
18	---	---	0.617B	0.137	0	0.498	0.048	0.010	0.001	0.001	---	---	18
19	---	---	2.34 B	0.151	0	0.212	0.046	0.010	0.001	0.001	---	---	19
20	---	---	3.36 B	0.161	0	0.140	0.053	0.009	0.001	0.001	---	---	20
21	---	OB	3.08 B	0.183	0	0.096	0.044	0.009	0.001	0.001	---	---	21
22	---	OB	2.30 B	0.174	0	0.082	0.043	0.008	0.001	0.001	---	---	22
23	---	OB	2.39 B	0.158	0	0.087	0.060	0.007	0.001	0.001	---	---	23
24	---	OB	1.40 B	0.145	0	0.064	0.041	0.007	0.001	0.001	---	---	24
25	---	OB	1.10 B	0.116	0	0.034	0.029	0.006	0.001	0.001	---	---	25
26	---	OB	1.50 B	0.084	0	0.043	0.032	0.006	0.001	0.001	---	---	26
27	---	OB	1.92 B	0.050	0	0.034	0.034	0.004	0.001	0.001	---	---	27
28	---	OB	2.60 B	0.018	0.002	0.030	0.039	0.001	0.001	0.001	---	---	28
29	---		3.01	0.017	0.006	0.022	0.034	0.001	0.001	0.001	---	---	29
30	---		3.63	0.012	0.006	0.017	0.032	0.001	0.001	0.001A	---	---	30
31	---		3.47		0.006		0.038	0.001		0.001E		---	31
TOTAL	---	---	35.559	16.434	0.120	12.731	41.170	0.408	0.030	0.031	---	---	TOTAL
MEAN	---	---	1.15	0.548	0.004	0.424	1.33	0.013	0.001	0.001	---	---	MEAN
MAX	---	---	3.63	2.93	0.019	2.97	8.97	0.033	0.001	0.001	---	---	MAX
MIN	---	---	0	0.012	0	0.015	0.015	0.001	0.001	0.001	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.435
MAXIMUM DAILY, 8.97 ON JUL 07
MINIMUM DAILY, OB ON MAR 01
MAXIMUM INSTANTANEOUS, 13.6 AT 01:06 MST ON JUL 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 26 04 N
LONG 112 21 18 W
DRAINAGE AREA, 223 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 560
FEB	---	AUG	35.2
MAR	3 070	SEP	2.59
APR	1 420	OCT	2.68
MAY	10.4	NOV	---
JUN	1 100	DEC	---

TOTAL DISCHARGE, 9 200 dam³

BIRCH CREEK NEAR CONKLIN - STATION NO. 07CE006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.145B	0.245B	3.73	0.780	0.754	0.280E	0.268	0.244	---	---	1
2	---	---	0.140B	0.250B	3.16	0.760	0.714	0.270E	0.259	0.266	---	---	2
3	---	---	0.135B	0.242B	2.83	0.724	0.785	0.260E	0.251	0.284	---	---	3
4	---	---	0.126B	0.228B	2.66	0.715	1.23	0.264E	0.248	0.280	---	---	4
5	---	---	0.141B	0.212B	2.45	0.708	1.26	0.262E	0.238	0.270	---	---	5
6	---	---	0.172B	0.205B	2.28	0.701	1.10	0.260E	0.244	0.276A	---	---	6
7	---	---	0.183B	0.190B	2.66	0.696	0.966	0.258E	0.243	0.271E	---	---	7
8	---	---	0.178B	0.170B	3.05	0.725	0.859	0.253E	0.239	0.270E	---	---	8
9	---	---	0.170B	0.145B	4.53	0.735	0.770	0.250E	0.243	0.260E	---	---	9
10	---	---	0.160B	0.159B	5.61	0.729	0.720	0.250E	0.245	0.290E	---	---	10
11	---	---	0.158B	0.110B	4.79	3.99	0.667	0.248E	0.237	0.299E	---	---	11
12	---	---	0.160B	0.080B	3.91	11.5	0.615	0.246E	0.241	0.297E	---	---	12
13	---	---	0.175B	0.084B	3.14	10.1	0.554	0.246E	0.250	0.292E	---	---	13
14	---	---	0.200B	0.086B	2.65	8.09	0.516	0.245E	0.252	0.285E	---	---	14
15	---	---	0.226B	0.095B	2.41	6.26	0.515	0.243E	0.246	0.275E	---	---	15
16	---	---	0.240B	0.125B	2.15	4.52	0.479	0.248E	0.234	0.270B	---	---	16
17	---	---	0.235B	0.190B	1.97	3.29	0.461	0.249E	0.235	0.268B	---	---	17
18	---	---	0.280B	0.240B	1.82	2.66	0.440	0.250E	0.232	0.263E	---	---	18
19	---	---	0.284B	0.310B	1.68	2.26	0.430	0.250E	0.238	0.261E	---	---	19
20	---	---	0.201B	0.430B	1.60	1.84	0.410	0.251E	0.240	0.260B	---	---	20
21	---	---	0.162B	0.600B	1.49	1.58	0.408	0.285E	0.239	0.258B	---	---	21
22	---	---	0.138B	0.900B	1.39	1.37	0.391	0.319A	0.244	0.257B	---	---	22
23	---	---	0.128B	1.30 B	1.33	1.19 A	0.369A	0.351	0.250	0.256A	---	---	23
24	---	---	0.129B	5.70 B	1.21	1.02	0.358E	0.294	0.245	0.252E	---	---	24
25	---	---	0.113B	8.42	1.16	0.908	0.350E	0.284	0.243	0.249E	---	---	25
26	---	---	0.113B	6.83	1.09	0.826	0.340E	0.267	0.243	0.248B	---	---	26
27	---	---	0.108B	5.31	0.998	0.813	0.335E	0.261	0.242	0.242B	---	---	27
28	---	---	0.127B	4.59	0.926	0.814	0.325E	0.251	0.241	0.240B	---	---	28
29	---	---	0.174B	3.90	0.880	0.797	0.315E	0.251	0.245	0.243B	---	---	29
30	---		0.211B	4.33	0.828	0.787	0.300E	0.250	0.248	0.240B	---	---	30
31	---		0.251B		0.803		0.288E	0.255		0.247B		---	31
TOTAL	---	---	5.303	45.696	71.185	71.888	18.032	8.159	7.323	8.249	---	---	TOTAL
MEAN	---	---	0.171	1.52	2.30	2.40	0.582	0.263	0.244	0.266	---	---	MEAN
MAX	---	---	0.254	8.42	5.61	11.5	1.26	0.351	0.268	0.299	---	---	MAX
MIN	---	---	0.108	0.080	0.803	0.696	0.288	0.243	0.232	0.240	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.963
MAXIMUM DAILY, 11.5 ON JUN 12
MINIMUM DAILY, 0.080B ON APR 12
MAXIMUM INSTANTANEOUS,
12.0 AT 09:59 MST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 37 07 N
LONG 111 05 09 W
DRAINAGE AREA, 232 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 560
FEB	---	AUG	705
MAR	458	SEP	633
APR	3 950	OCT	713
MAY	6 150	NOV	---
JUN	6 210	DEC	---

TOTAL DISCHARGE, 20 400 dam³

BIRCH RIVER BELOW ALICE CREEK - STATION NO. 07KE001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.17B	1.47B	98.6E	50.2	14.1 E	5.60E	8.18	4.40	---	---	1
2	---	---	1.25B	1.49B	93.8A	46.6	13.7 A	5.10E	8.43	4.38	---	---	2
3	---	---	1.30B	1.60B	91.9	43.6	12.8	4.65E	7.79	4.29	---	---	3
4	---	---	1.30B	1.90B	93.7	41.0	11.8	4.20E	7.40	4.24	---	---	4
5	---	---	1.30B	2.11B	98.5	38.9	10.8	4.00E	6.94	4.25	---	---	5
6	---	---	1.30B	2.25B	105	36.9	10.4 A	3.90E	6.37	4.27	---	---	6
7	---	---	1.29B	2.16B	112 A	34.8	10.0 A	3.65E	5.92	4.27	---	---	7
8	---	---	1.30B	2.10B	118	32.5	9.51	3.40E	5.50	4.25	---	---	8
9	---	---	1.33B	2.08B	128 A	30.3	8.79	3.25E	5.28	4.25	---	---	9
10	---	---	1.36B	2.10B	139 A	28.4	8.43	2.90E	5.06	4.25	---	---	10
11	---	---	1.39B	3.00B	147	27.5	8.62	2.85E	4.97	4.27B	---	---	11
12	---	---	1.47B	4.21B	150	32.4	8.99	3.00E	4.84	4.27B	---	---	12
13	---	---	1.47B	4.43B	148	40.6	8.75	2.90E	4.72	4.27B	---	---	13
14	---	---	1.55B	4.53B	143	43.6	8.00	2.80E	4.67	4.19B	---	---	14
15	---	---	1.61B	4.46B	135	44.4	8.31	2.50E	4.65	4.13B	---	---	15
16	---	---	1.67B	4.39B	125	44.9	13.0	2.20E	4.66	4.08B	---	---	16
17	---	---	1.67B	4.77B	116	44.5	15.5	2.10E	4.50	4.10B	---	---	17
18	---	---	1.65B	7.42B	106	42.2	15.6	2.05E	4.42	4.29B	---	---	18
19	---	---	1.67B	10.8 B	98.2	39.2A	15.4 E	2.04E	4.69	4.26B	---	---	19
20	---	---	1.64B	17.8 B	92.3A	36.7A	14.5 E	2.03E	4.95	4.23B	---	---	20
21	---	---	1.58B	44.7 B	86.5	33.7	13.5 E	2.02A	5.09	4.15B	---	---	21
22	---	---	1.50B	61.3 B	81.2A	30.3A	12.6 E	2.02	5.49	3.96B	---	---	22
23	---	---	1.43B	87.1 B	77.2	27.4	11.8 E	2.06	5.55	4.70B	---	---	23
24	---	---	1.39B	115	74.4	25.1	11.2 E	2.25	5.37	4.59B	---	---	24
25	---	---	1.36B	129	72.3	22.7	10.4 E	3.92	5.10	4.51B	---	---	25
26	---	---	1.35B	134	70.5	20.3	9.80E	6.72	4.88	4.38B	---	---	26
27	---	---	1.34B	136	68.2	18.1A	8.80E	7.02A	4.68	4.30B	---	---	27
28	---	1.14B	1.31B	131	65.8	16.3E	8.20E	6.58A	4.54	4.45B	---	---	28
29	---		1.30B	121	63.2	15.1E	7.60E	6.47	4.40	4.49B	---	---	29
30	---		1.34B	108 A	58.7A	14.5E	7.00E	6.23	4.42	4.45B	---	---	30
31	---		1.42B		54.4A		6.50E	6.55		4.32B		---	31
TOTAL	---	---	44.01	1 152.17	3 111.3	1 002.7	334.40	117.06	163.46	133.24	---	---	TOTAL
MEAN	---	---	1.42	38.4	100	33.4	10.8	3.78	5.45	4.30	---	---	MEAN
MAX	---	---	1.67	136	150	50.2	15.6	7.02	8.43	4.70	---	---	MAX
MIN	---	---	1.17	1.47	54.4	14.5	6.50	2.02	4.40	3.96	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 24.7
MAXIMUM DAILY, 150 ON MAY 12
MINIMUM DAILY, 1.17B ON MAR 01
MAXIMUM INSTANTANEOUS,
151 AT 14:36 MST ON MAY 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 19 20 N
LONG 113 04 05 W
DRAINAGE AREA, 9 860 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	28 900
FEB	---	AUG	10 100
MAR	3 800	SEP	14 100
APR	99 500	OCT	11 500
MAY	269 000	NOV	---
JUN	86 600	DEC	---

TOTAL DISCHARGE, 524 000 dam³

BLACKMUD CREEK NEAR ELLERSLIE - STATION NO. 05DF003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	9.18	1.29	0.080E	0.062	0.381	0.123	0	---	---	1
2	---	---	0 B	8.07	1.13	0.070E	0.074	0.281	0.138	0	---	---	2
3	---	---	0 B	7.30	0.972	0.060E	2.58	0.178	0.080	0	---	---	3
4	---	---	0.010B	6.52	0.876	0.080E	4.74	0.222	0.049	0	---	---	4
5	---	---	0.100B	5.73	0.791	0.159A	3.01	0.157	0.035	0	---	---	5
6	---	---	0.250B	5.06	0.588	0.260	4.80 A	0.099	0.027	0	---	---	6
7	---	---	0.453B	4.42	0.532	0.344	5.40 E	0.073	0.023	0	---	---	7
8	---	---	0.400B	3.85	0.639	0.266	4.65 A	0.071	0.024	0	---	---	8
9	---	---	0.250B	3.28	0.658	0.194	4.26	0.059	0.025	0	---	---	9
10	---	---	0.174B	2.76	0.585	0.148	3.92	0.044	0.027	0	---	---	10
11	---	---	0.135B	2.46	0.572	0.165	3.51	0.034	0.028	0	---	---	11
12	---	---	0.100B	2.23	0.500	0.545	3.09	0.030	0.084	0	---	---	12
13	---	---	0.080B	2.07	0.409	1.39	2.56	0.023	0.041	0	---	---	13
14	---	---	0.080B	1.83	0.334	0.919	1.91	0.020	0.030	0	---	---	14
15	---	---	0.089B	1.53	0.295	0.683	1.37	0.014	0.028	0	---	---	15
16	---	---	0.261B	1.29	0.326	0.475	1.45	0.022	0.022	0	---	---	16
17	---	---	0.705B	1.15	0.303	0.356	2.07	0.022	0.016	0	---	---	17
18	---	---	1.03 B	0.931	0.325	0.309	1.50	0.055	0.015	0	---	---	18
19	---	---	1.50 B	1.15	0.376	0.247	1.16	0.048	0.020	0	---	---	19
20	---	---	1.35 B	0.869	0.335	0.205	1.02	0.040	0.021	0	---	---	20
21	---	---	1.15 B	0.786	0.217	0.173	0.960	0.032	0.018	0.001	---	---	21
22	---	---	0.080B	0.689	0.170	0.166	0.855	0.024	0.014	0.003	---	---	22
23	---	---	0.040B	0.977	0.567	0.150	0.741	0.021	0.011	0.006	---	---	23
24	---	---	0.015B	6.66	0.910	0.134	0.842	0.027	0.008	0.009	---	---	24
25	---	---	0.040B	4.37	0.590	0.113	0.681	0.014	0.005	0.011	---	---	25
26	---	---	1.00 B	2.90	0.290	0.101	0.567	0.013	0.003	0.014	---	---	26
27	---	---	1.90 B	2.52	0.149	0.098	0.502	0.013	0.001	0.019	---	---	27
28	---	0B	5.23 B	2.12	0.128	0.072	0.435	0.013	0	0.024	---	---	28
29	---		8.12 B	1.43	0.121	0.066	0.381	0.011	0	0.029	---	---	29
30	---		9.58 B	1.41	0.120A	0.063	0.472	0.012	0	0.167A	---	---	30
31	---		11.4 B		0.100E		0.465	0.022		0.050E		---	31
TOTAL	---	---	45.542	95.542	15.198	8.091	60.037	2.065	0.916	0.333	---	---	TOTAL
MEAN	---	---	1.47	3.18	0.490	0.270	1.94	0.067	0.031	0.011	---	---	MEAN
MAX	---	---	11.4	9.18	1.29	1.39	5.40	0.381	0.138	0.167	---	---	MAX
MIN	---	---	0	0.689	0.100	0.060	0.062	0.011	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.929
MAXIMUM DAILY, 11.4B ON MAR 31
MINIMUM DAILY, 0B ON MAR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 24 50 N
LONG 113 30 56 W
DRAINAGE AREA, 643 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	5 190
FEB	---	AUG	178
MAR	3 930	SEP	79.1
APR	8 250	OCT	28.8
MAY	1 310	NOV	---
JUN	699	DEC	---

TOTAL DISCHARGE, 19 700 dam³

BLINDMAN RIVER NEAR BLACKFALDS - STATION NO. 05CC001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.640B	0.330B	0.570B	59.4 B	3.81	13.1	5.52	2.32	0.860	0.503	0.859	0.680B	1
2	0.630B	0.345B	0.580B	72.6 B	3.45	10.9	4.39	2.26	0.773	0.480	0.858	0.670B	2
3	0.622B	0.370B	0.575B	52.2 B	3.18	7.62	42.8	2.18	0.720	0.473	0.797	0.680B	3
4	0.617B	0.370B	0.560B	33.3	2.87	9.28	222	2.08	0.676	0.511	0.770B	0.690B	4
5	0.620B	0.365B	0.540B	23.6	2.65	11.7	333	1.90	0.697	0.955	0.760B	0.710B	5
6	0.620B	0.360B	0.539B	15.8	2.43	15.9	206	1.74	0.899	1.08	0.770B	0.720B	6
7	0.620B	0.355B	1.80 B	12.0	2.30	17.5	113	1.60	0.973	0.896	0.780B	0.720B	7
8	0.600B	0.350B	1.30 B	9.07	2.21	13.5	69.1	1.46	0.863	0.991	0.780B	0.700B	8
9	0.575B	0.345B	2.71 B	6.59	2.21	10.4	37.6	1.39	0.727	1.07	0.760B	0.680B	9
10	0.555B	0.342B	3.39 B	4.71	3.18	7.81	25.9	1.26	0.652	1.11	0.750B	0.650B	10
11	0.530B	0.340B	2.67 B	4.42	3.93	8.09	20.4	1.21	0.577	1.15	0.760B	0.630B	11
12	0.500B	0.335B	2.40 B	4.12	3.57	28.9	15.4	1.24	0.531	1.23	0.780B	0.610B	12
13	0.475B	0.330B	2.15 B	3.99	3.16	84.6	10.9	1.31	0.498	1.40	0.800B	0.600B	13
14	0.450B	0.325B	1.90 B	4.37	3.05	104	7.71	1.24	0.463	1.41	0.800B	0.580B	14
15	0.430B	0.320B	1.73 B	4.91	2.80	70.6	6.08	1.16	0.452	1.48	0.770B	0.560B	15
16	0.405B	0.315B	1.45 B	4.75	2.66	36.9	5.70	1.12	0.422	1.54	0.770B	0.546B	16
17	0.410B	0.315B	1.40 B	4.67	2.50	25.5	5.85	1.11	0.435	1.34	0.780B	0.532B	17
18	0.420B	0.320B	1.80 B	4.17	2.26	18.6	6.88	1.12	0.448	1.16	0.760B	0.470B	18
19	0.422B	0.330B	6.14 B	3.83	1.99	13.7	6.79	1.19	0.463	1.05	0.750B	0.420B	19
20	0.425B	0.340B	16.7 B	3.29	1.88	9.80	5.58	1.17	0.439	0.997	0.730B	0.370B	20
21	0.430B	0.355B	24.6 B	3.25	2.07	7.45	4.72	1.24 A	0.586	0.956	0.720B	0.330B	21
22	0.425B	0.370B	21.0 B	3.18	2.30	6.04	4.50	1.06	0.634	0.930	0.715B	0.305B	22
23	0.420B	0.400B	14.2 B	3.47	5.01	5.11	3.73	1.16	0.656	0.884	0.690B	0.310B	23
24	0.410B	0.420B	10.2 B	3.21	6.07	4.89	3.28	1.12	0.609	0.833	0.680B	0.325B	24
25	0.400B	0.440B	5.98 B	4.48	8.65	4.42	3.08	1.11	0.638	0.905	0.660B	0.330B	25
26	0.385B	0.460B	5.00 B	8.05	25.6	4.16	2.86	1.13	0.659	0.942	0.640B	0.325B	26
27	0.365B	0.480B	4.20 B	7.64	22.2	4.32	2.90	1.11	0.613	0.952	0.614B	0.310B	27
28	0.355B	0.510B	9.18 B	6.08	13.7	4.54	3.00	1.14	0.570	0.867	0.650B	0.295B	28
29	0.340B		31.0 B	4.65	8.63	7.81	2.91	1.10	0.547	0.825	0.680B	0.285B	29
30	0.330B		43.7 B	4.23	6.54	7.04	2.62	1.03	0.533	0.833	0.680B	0.275B	30
31	0.315B		33.0 B		7.49		2.42	0.922		0.852		0.265B	31
TOTAL	14.741	10.237	252.964	380.03	164.35	574.18	1 186.62	42.182	18.613	30.605	22.313	15.573	TOTAL
MEAN	0.476	0.366	8.16	12.7	5.30	19.1	38.3	1.36	0.620	0.987	0.744	0.502	MEAN
MAX	0.640	0.510	43.7	72.6	25.6	104	333	2.32	0.973	1.54	0.859	0.720	MAX
MIN	0.315	0.315	0.539	3.18	1.88	4.16	2.42	0.922	0.422	0.473	0.614	0.265	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 7.43
MAXIMUM DAILY, 333 ON JUL 05
MINIMUM DAILY, 0.265B ON DEC 31
MAXIMUM INSTANTANEOUS, 396 AT 23:26 MST ON JUL 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 21 14 N
LONG 113 47 35 W
DRAINAGE AREA, 1 790 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED SINCE 1976

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 270	JUL	103 000
FEB	884	AUG	3 640
MAR	21 900	SEP	1 610
APR	32 800	OCT	2 640
MAY	14 200	NOV	1 930
JUN	49 600	DEC	1 350

TOTAL DISCHARGE, 235 000 dam³

BLINDMAN RIVER NEAR BLUFFTON - STATION NO. 05CC008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.146B	17.8	2.02	4.12	1.82	0.268	0.089	0.056	---	---	1
2	---	---	0.146B	19.0	1.62	2.86	2.77	0.235	0.199	0.048	---	---	2
3	---	---	0.146B	11.4	1.64	2.64	229	0.206	0.106	0.032	---	---	3
4	---	---	0.146B	8.16	1.08	2.05	125	0.188	0.178	0.022	---	---	4
5	---	---	0.145B	3.91	0.747	10.5	32.8	0.163	0.107	0.046	---	---	5
6	---	---	0.147B	4.08	0.958	7.93	27.5 E	0.134	0.105	0.027	---	---	6
7	---	---	0.148B	2.39	1.18	5.37	20.4 E	0.152	0.110	0.032	---	---	7
8	---	---	0.150B	2.55	1.21	4.43	13.3 E	0.127	0.111	0.036	---	---	8
9	---	---	0.160B	1.65	1.23	3.12	6.18	0.116	0.091	0.072	---	---	9
10	---	---	0.170B	1.17	1.33	1.61	3.29	0.110	0.072	0.127	---	---	10
11	---	---	0.180B	1.34	1.65	3.74	1.98	0.107	0.066	0.275	---	---	11
12	---	---	0.190B	1.86	1.86	59.0	2.27	0.106	0.078	0.218E	---	---	12
13	---	---	0.210B	1.94	1.69	58.7	2.41	0.115	0.080	0.162E	---	---	13
14	---	---	0.232B	2.05	1.56	38.4	1.68	0.108	0.062	0.105	---	---	14
15	---	---	0.280B	2.14	1.52	26.9 E	0.934	0.156	0.051	0.047	---	---	15
16	---	---	0.350B	1.82	1.25	15.3 E	0.950	0.157E	0.058	0.065	---	---	16
17	---	---	0.500B	1.86	1.21	3.81	1.42	0.159E	0.030	0.067	---	---	17
18	---	---	0.700B	1.88	1.01	3.91	1.68	0.160E	0.040	0.091	---	---	18
19	---	---	1.09 B	2.06	1.18	3.11	1.06	0.162E	0.066	0.115	---	---	19
20	---	---	1.07 B	2.17	1.34 E	1.99	0.950	0.163	0.051	0.046	---	---	20
21	---	---	1.06 B	2.35	1.50 E	1.46	0.739	0.127	0.036	0.167	---	---	21
22	---	---	1.06 B	1.89	1.66	1.27	0.593	0.089	0.015	0.069	---	---	22
23	---	---	1.05 B	1.97	5.62	1.14	0.674	0.228	0.053	0.094	---	---	23
24	---	---	1.06 B	4.73	3.86	1.18	0.437	0.149	0.043	0.071	---	---	24
25	---	---	1.50 B	4.47	6.07	1.34	0.437	0.105	0.058	0.121E	---	---	25
26	---	---	2.00 B	3.63	21.6	1.32	0.448	0.102	0.053	0.170	---	---	26
27	---	---	2.50 B	4.29	5.75	2.79	0.426	0.082	0.045E	0.146E	---	---	27
28	---	---	3.16 B	3.14	4.15	4.73	0.379	0.095	0.040E	0.121E	---	---	28
29	---	---	10.2	2.41	3.19	3.58	0.336	0.087	0.030	0.097	---	---	29
30	---		18.6	2.23	5.37	2.65	0.307	0.117	0.056	0.057	---	---	30
31	---		17.3		7.34		0.343	0.090		0.040		---	31
TOTAL	---	---	65.796	122.34	93.395	281.05	482.513	4.363	2.179	2.842	---	---	TOTAL
MEAN	---	---	2.12	4.08	3.01	9.37	15.6	0.141	0.073	0.092	---	---	MEAN
MAX	---	---	18.6	19.0	21.6	59.0	229	0.268	0.199	0.275	---	---	MAX
MIN	---	---	0.145	1.17	0.747	1.14	0.307	0.082	0.015	0.022	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.30
MAXIMUM DAILY, 229 ON JUL 03
MINIMUM DAILY, 0.015 ON SEP 22
MAXIMUM INSTANTANEOUS,
329 ON JUL 03

TYPE OF GAUGE - MANUAL
LOCATION - LAT 52 45 22 N
LONG 114 17 03 W
DRAINAGE AREA, 352 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	41 700
FEB	---	AUG	377
MAR	5 680	SEP	188
APR	10 600	OCT	246
MAY	8 070	NOV	---
JUN	24 300	DEC	---

TOTAL DISCHARGE, 91 200 dam³

BLOCK CREEK NEAR LEEDALE - STATION NO. 05CC010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.068B	1.72 B	0.202	0.443	0.250	0.254	0.157	0.118	---	---	1
2	---	---	0.079B	1.22	0.196	0.406	0.323	0.253	0.151	0.117	---	---	2
3	---	---	0.105B	1.09	0.168	0.386	10.4	0.267	0.146	0.107	---	---	3
4	---	---	0.137B	0.719	0.160	0.590	8.03	0.289	0.142	0.107	---	---	4
5	---	---	0.166B	0.673B	0.138	1.05	1.98	0.253	0.141	0.129	---	---	5
6	---	---	0.190B	0.533	0.133	0.770	1.88	0.237	0.139	0.132	---	---	6
7	---	---	0.220B	0.497	0.132	0.614	4.02	0.228	0.134	0.126	---	---	7
8	---	---	0.220B	0.475	0.145	0.412	1.85	0.230	0.134	0.135	---	---	8
9	---	---	0.210B	0.440B	0.165	0.338	0.889	0.232	0.136	0.143	---	---	9
10	---	---	0.200B	0.407B	0.172	0.303	0.625	0.232	0.142	0.152	---	---	10
11	---	---	0.190B	0.392B	0.145	0.395	0.548	0.223	0.127	0.149	---	---	11
12	---	---	0.174B	0.395	0.127	1.44	0.507	0.214	0.114	0.172	---	---	12
13	---	---	0.150B	0.391	0.128	1.27	0.481	0.241	0.126	0.123	---	---	13
14	---	---	0.140B	0.410	0.137	0.873	0.457	0.209	0.121	0.116	---	---	14
15	---	0.025B	0.118B	0.411	0.146	0.525	0.427	0.213	0.124	0.110	---	---	15
16	---	0.020B	0.145B	0.379	0.124	0.385	0.532	0.230	0.126	0.107	---	---	16
17	---	0.031B	0.200B	0.340	0.117	0.336	0.574	0.255	0.151	0.106	---	---	17
18	---	0.035B	0.249B	0.322	0.120	0.327	0.450	0.234	0.137	0.108	---	---	18
19	---	0.037B	0.298B	0.324	0.136	0.368	0.412	0.218	0.124	0.105	---	---	19
20	---	0.038B	0.606B	0.297	0.123	0.325	0.389	0.200	0.122	0.103	---	---	20
21	---	0.039B	0.461B	0.279	0.179	0.296	0.360	0.195	0.117	0.099	---	---	21
22	---	0.041B	0.189B	0.284	0.369	0.262	0.335	0.197	0.116	0.098	---	---	22
23	---	0.040B	0.102B	0.272	0.345	0.253	0.316	0.241	0.110	0.098	---	---	23
24	---	0.045B	0.081B	0.276	0.404	0.251	0.303	0.237	0.102	0.099	---	---	24
25	---	0.051B	0.073B	0.268	0.997	0.252	0.328	0.223	0.103	0.107	---	---	25
26	---	0.057B	0.067B	0.297	0.809	0.243	0.319	0.206	0.108	0.106	---	---	26
27	---	0.061B	0.180B	0.290	0.579	0.282	0.290	0.206	0.141	0.106	---	---	27
28	---	0.064B	0.482B	0.290	0.482	0.319	0.278	0.191	0.112	0.106	---	---	28
29	---		0.683B	0.252	0.427	0.274	0.269	0.171	0.117	0.106A	---	---	29
30	---		0.879B	0.230	0.447	0.242	0.262	0.163	0.119	0.106E	---	---	30
31	---		1.49 B		0.500		0.260	0.165		0.106E		---	31
TOTAL	---	---	8.652	14.173	8.452	14.230	38.344	6.927	3.839	3.602	---	---	TOTAL
MEAN	---	---	0.279	0.472	0.273	0.474	1.24	0.224	0.128	0.116	---	---	MEAN
MAX	---	---	1.49	1.72	0.997	1.44	10.4	0.289	0.157	0.172	---	---	MAX
MIN	---	---	0.067	0.230	0.117	0.242	0.250	0.163	0.102	0.098	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.401
MAXIMUM DAILY, 10.4 ON JUL 03
MINIMUM DAILY, 0.067B ON MAR 26
MAXIMUM INSTANTANEOUS,
17.6 AT 18:40 MST ON JUL 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 34 25 N
LONG 114 34 24 W
DRAINAGE AREA, 53.6 km²

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 310
FEB	---	AUG	598
MAR	748	SEP	332
APR	1 220	OCT	311
MAY	730	NOV	---
JUN	1 230	DEC	---

TOTAL DISCHARGE, 8 460 dam³

REMARKS - STATION NAME WAS CHANGED IN 1989. RECORDS PRIOR TO 1989 WERE PUBLISHED UNDER WELCH CREEK TRIBUTARY NEAR LEEDALE

BLOOD INDIAN CREEK NEAR CABIN LAKE - STATION NO. 05CK007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0	0	0	0	0	0	0	0	---	---	1
2	---	---	0	0	0	0	0	0	0	0	---	---	2
3	---	---	0	0	0	0	0	0	0	0	---	---	3
4	---	---	0	0	0	0	0	0	0	0	---	---	4
5	---	---	0	0	0	0	0	0	0	0	---	---	5
6	---	---	0	0	0	0	0	0	0	0	---	---	6
7	---	---	0	0	0	0	0	0	0	0	---	---	7
8	---	---	0	0	0	0	0	0	0	0	---	---	8
9	---	---	0	0	0	0	0	0	0	0	---	---	9
10	---	---	0	0	0	0	0	0	0	0	---	---	10
11	---	---	0	0	0	0	0	0	0	0	---	---	11
12	---	---	0	0	0	0	0	0	0	0	---	---	12
13	---	---	0	0	0	0	0	0	0	0	---	---	13
14	---	---	0	0	0	0	0	0	0	0	---	---	14
15	---	---	0	0	0	0	0	0	0	0	---	---	15
16	---	---	0	0	0	0	0	0	0	0	---	---	16
17	---	---	0	0	0	0	0	0	0	0	---	---	17
18	---	---	0	0	0	0	0	0	0	0	---	---	18
19	---	---	0	0	0	0	0	0	0	0	---	---	19
20	---	---	0	0	0	0	0	0	0	0	---	---	20
21	---	---	0	0	0	0	0	0	0	0	---	---	21
22	---	---	0	0	0	0	0	0	0	0	---	---	22
23	---	---	0	0	0	0	0	0	0	0	---	---	23
24	---	---	0	0	0	0	0	0	0	0	---	---	24
25	---	---	0	0	0	0	0	0	0	0	---	---	25
26	---	---	0	0	0	0	0	0	0	0	---	---	26
27	---	0A	0	0	0	0	0	0	0	0	---	---	27
28	---	0	0	0	0	0	0	0	0	0	---	---	28
29	---		0	0	0	0	0	0	0	0	---	---	29
30	---		0	0	0	0	0	0	0	0A	---	---	30
31	---		0		0		0	0		0E		---	31
TOTAL	---	---	0	0	0	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0	0	0	0	0	0	0	0	---	---	MEAN
MAX	---	---	0	0	0	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0
MAXIMUM DAILY, 0 ON MAR 01
MINIMUM DAILY, 0 ON MAR 01
MAXIMUM INSTANTANEOUS,
0.000 ON JUL

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 05 44 N
LONG 111 14 19 W
DRAINAGE AREA, 320 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	0	SEP	0
APR	0	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 0 dam³

REMARKS - ZERO FLOWS FOR THE YEAR.

BLOOD INDIAN CREEK NEAR THE MOUTH - STATION NO. 05CK001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.012B	0.003	0.004	0.004	0.001	0.003	0.002	0.003	---	---	1
2	---	---	0.013B	0.003	0.004	0.003	0.002	0.003	0.002	0.003	---	---	2
3	---	---	0.010B	0.003	0.004	0.003	0.003	0.002	0.002	0.004	---	---	3
4	---	---	0.007B	0.003	0.004	0.003	0.002	0.002	0.002	0.004	---	---	4
5	---	---	0.004B	0.003	0.004	0.003	0.002	0.002	0.002	0.004	---	---	5
6	---	---	0.006B	0.003	0.004	0.003	0.002	0.002	0.002	0.004	---	---	6
7	---	---	0.011B	0.003	0.004	0.003	0.003	0.002	0.002	0.004	---	---	7
8	---	---	0.008B	0.003	0.004	0.003	0.002	0.002	0.003	0.004	---	---	8
9	---	---	0.006B	0.003	0.004	0.003	0.002	0.002	0.003	0.004	---	---	9
10	---	---	0.007B	0.004	0.004	0.002	0.002	0.002	0.003	0.003	---	---	10
11	---	---	0.009B	0.003	0.004	0.002	0.002	0.002	0.003	0.003	---	---	11
12	---	---	0.007B	0.003	0.005	0.002	0.002	0.002	0.003	0.003	---	---	12
13	---	---	0.006B	0.003	0.004	0.003	0.002	0.002	0.004	0.003	---	---	13
14	---	---	0.005B	0.003	0.004	0.002	0.002	0.002	0.003	0.004	---	---	14
15	---	---	0.005B	0.003	0.004	0.002	0.002	0.002	0.003	0.003	---	---	15
16	---	---	0.005B	0.002	0.003	0.002	0.002	0.002	0.003	0.003	---	---	16
17	---	---	0.005B	0.002	0.004	0.002	0.003	0.002	0.003	0.003	---	---	17
18	---	---	0.005B	0.002	0.004	0.002	0.003	0.003	0.003	0.003	---	---	18
19	---	---	0.005B	0.002	0.004	0.002	0.003	0.003	0.003	0.003	---	---	19
20	---	---	0.005B	0.001	0.004	0.002	0.003	0.002	0.004	0.003	---	---	20
21	---	---	0.005B	0.002	0.003	0.002	0.003	0.002	0.004	0.003	---	---	21
22	---	---	0.004B	0.005	0.003	0.002	0.003	0.001	0.004	0.003	---	---	22
23	---	---	0.004B	0.007	0.003	0.002	0.003	0.002	0.004	0.003	---	---	23
24	---	---	0.003B	0.008	0.003	0.002	0.003	0.003	0.004	0.003	---	---	24
25	---	---	0.003B	0.007	0.004	0.002	0.003	0.003	0.004	0.003	---	---	25
26	---	---	0.003B	0.006	0.003	0.002	0.003	0.003	0.004	0.003	---	---	26
27	---	0.002B	0.003B	0.007	0.003	0.002	0.003	0.003	0.003	0.003	---	---	27
28	---	0.020B	0.003B	0.005	0.003	0.002	0.003	0.003	0.004	0.003	---	---	28
29	---		0.004B	0.005	0.003	0.002	0.003	0.002	0.003	0.003	---	---	29
30	---		0.005B	0.004	0.003	0.002	0.003	0.002	0.003	0.003	---	---	30
31	---		0.004B		0.003		0.002	0.002		0.003A		---	31
TOTAL	---	---	0.182	0.111	0.114	0.071	0.077	0.070	0.092	0.101	---	---	TOTAL
MEAN	---	---	0.006	0.004	0.004	0.002	0.003	0.002	0.003	0.003	---	---	MEAN
MAX	---	---	0.013	0.008	0.005	0.004	0.003	0.003	0.004	0.004	---	---	MAX
MIN	---	---	0.003	0.001	0.003	0.002	0.001	0.001	0.002	0.003	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.003
MAXIMUM DAILY, 0.013B ON MAR 02
MINIMUM DAILY, 0.001 ON APR 20
MAXIMUM INSTANTANEOUS,
0.011 AT 17:39 MST ON APR 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 26 N
LONG 111 03 30 W
DRAINAGE AREA, 695 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	6.65
FEB	---	AUG	6.05
MAR	15.7	SEP	7.95
APR	9.59	OCT	8.73
MAY	9.85	NOV	---
JUN	6.13	DEC	---

TOTAL DISCHARGE, 70.7 dam³

BOUNTIFUL COULEE INFLOW NEAR CRANFORD - STATION NO. 05AG026

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0	0.061	0.285	0.402	0.242	0.222	---	---	1
2	---	---	---	---	0	0.103	0.319	0.378	0.201	0.154	---	---	2
3	---	---	---	---	0	0.118	0.445	0.337	0.158	0.094	---	---	3
4	---	---	---	---	0	0.111	0.321	0.394	0.238	0.130	---	---	4
5	---	---	---	---	0	0.132	0.257	0.479	0.282	0.159	---	---	5
6	---	---	---	---	0	0.197	0.252	0.450	0.349	0.193	---	---	6
7	---	---	---	---	0	0.135	0.275	0.358	0.380	0.176	---	---	7
8	---	---	---	---	0.046	0.128	0.325	0.357	0.438	0.168	---	---	8
9	---	---	---	---	0.066	0.070	0.345	0.257	0.366	0.132	---	---	9
10	---	---	---	---	0.062	0.141	0.371	0.322	0.423	0.109	---	---	10
11	---	---	---	---	0.118	0.108	0.290	0.321	0.408	0.121	---	---	11
12	---	---	---	---	0.207	0.221	0.289	0.348	0.392	0.046	---	---	12
13	---	---	---	---	0.197	0.324	0.369	0.323	0.321	0.004	---	---	13
14	---	---	---	---	0.120	0.186	0.305	0.349	0.263	0.001	---	---	14
15	---	---	---	---	0.060	0.099	0.443	0.370	0.422	0.001	---	---	15
16	---	---	---	---	0.081	0.076	0.493	0.322	0.295	0.001	---	---	16
17	---	---	---	---	0.072	0.113	0.370	0.445	0.389	0.002	---	---	17
18	---	---	---	---	0.133	0.207	0.360	0.321	0.241	0.001	---	---	18
19	---	---	---	0.001A	0.174	0.255	0.521	0.314	0.234	0.001	---	---	19
20	---	---	---	0.001	0.180	0.308	0.545	0.209	0.170	0.001	---	---	20
21	---	---	---	0	0.191	0.378	0.539	0.200	0.187	0.001	---	---	21
22	---	---	---	0	0.171	0.281	0.648	0.300	0.290	0.001	---	---	22
23	---	---	---	0	0.185	0.291	0.509	0.267	0.337	0.001	---	---	23
24	---	---	---	0	0.201	0.293	0.490	0.271	0.315	0.001	---	---	24
25	---	---	---	0	0.225	0.318	0.545	0.286	0.306	0.001	---	---	25
26	---	---	---	0.001	0.066	0.297	0.577	0.277	0.268	0.001	---	---	26
27	---	---	---	0.002	0.061	0.347	0.556	0.247	0.175	0	---	---	27
28	---	---	---	0.002	0.055	0.346	0.386	0.257	0.322	0.001	---	---	28
29	---	---	---	0.001	0.033	0.307	0.465	0.291	0.278	0.001	---	---	29
30	---		---	0.001	0.054	0.287	0.478	0.181	0.316	0.001	---	---	30
31	---		---		0.044		0.478	0.253		0.001A		---	31
TOTAL	---	---	---	---	2.802	6.238	12.851	9.886	9.006	1.726	---	---	TOTAL
MEAN	---	---	---	---	0.090	0.208	0.415	0.319	0.300	0.056	---	---	MEAN
MAX	---	---	---	---	0.225	0.378	0.648	0.479	0.438	0.222	---	---	MAX
MIN	---	---	---	---	0	0.061	0.252	0.181	0.158	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.231
MAXIMUM DAILY, 0.648 ON JUL 22
MINIMUM DAILY, 0 ON MAY 01

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 47 08 N
LONG 112 18 55 W

A - MANUAL GAUGE

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 110
FEB	---	AUG	854
MAR	---	SEP	778
APR	---	OCT	149
MAY	242	NOV	---
JUN	539	DEC	---

TOTAL DISCHARGE, 3 670 dam³

BOW RIVER AT BANFF - STATION NO. 05BB001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	11.9 B	8.88B	8.68B	9.76	15.8	197	177	89.7	43.2	26.0	18.6	11.0 B	1
2	11.9 B	8.80B	8.71B	10.0	15.6	238	156	88.0	41.1	25.4	17.1	11.8 B	2
3	11.5 B	9.38B	8.70B	10.4	15.6	207	160	80.8	39.8	24.3	14.4	12.9 B	3
4	11.4 B	9.75B	8.64B	10.4	16.5	189	144	74.7	38.2	24.9	15.9	12.0 B	4
5	12.0 B	10.4 B	8.57B	10.1	19.6	160	132	72.7	37.1	31.2	16.7	13.2 B	5
6	12.1 B	10.5 B	8.56B	10.2	29.1	133	151	74.0	36.4	29.5	13.8	14.0 B	6
7	11.7 B	10.0 B	8.58B	10.4	32.4	118	177	76.9	36.2	26.6	14.4	13.9 B	7
8	11.5 B	9.75B	8.61B	10.5	29.7	108	168	75.3	36.4	24.8	15.8	13.5 B	8
9	11.4 B	9.60B	8.67B	10.1	27.4	103	156	72.9	36.7	23.7	15.8	13.3 B	9
10	9.63B	9.70B	8.68B	9.41	26.6	117	153	71.8	36.7	23.6	16.0	13.0 B	10
11	9.12B	9.80B	8.61B	9.48	25.8	161	147	72.0	36.9	23.0	16.1	12.0 B	11
12	9.45B	9.80B	8.53B	9.81	26.3	146	151	72.7	37.1	24.0	20.6	10.5 B	12
13	9.83B	9.55B	8.48B	10.1	26.6	124	159	76.3	36.5	22.0	22.8	10.0 B	13
14	11.3 B	9.25B	8.44B	10.1	27.4	108	158	75.8	35.2	21.0	23.0	10.2 B	14
15	11.5 B	8.85B	8.45B	10.1	26.7	105	141	76.2	34.8	20.5	21.1	10.8 B	15
16	11.0 B	8.55B	8.50B	10.3	26.0	116	130	74.5	35.3	20.2	19.6	12.0 B	16
17	9.88B	8.35B	8.51B	10.7	26.5	126	125	71.2	39.2	19.4	18.8	11.0 B	17
18	8.80B	8.30B	8.46B	11.2	27.1	145	113	69.2	36.3	19.4	17.3	10.4 B	18
19	8.85B	8.35B	8.32B	11.9	28.3	144	106	65.9	33.8	19.3	22.2	9.70B	19
20	9.40B	8.45B	8.60B	13.2	28.8	141	97.7	62.2	32.0	18.2	16.3	9.00B	20
21	10.2 B	8.50B	8.59B	15.1	31.8	146	90.3	62.4	30.5	18.2	15.0	9.00B	21
22	11.4 B	8.35B	8.32B	16.8	33.0	161	85.9	66.2	29.4	18.4	14.9	9.00B	22
23	11.1 B	8.35B	8.12B	18.3	34.5	197	86.1	68.3	28.9	17.8	14.0	9.20B	23
24	11.1 B	8.70B	8.12B	20.5	40.8	219	93.3	61.7	29.0	17.4	14.4	9.50B	24
25	11.1 B	9.10B	8.20B	21.1	60.6	239	96.6	54.7	29.8	17.6	13.1B	9.80B	25
26	11.1 B	8.80B	8.30B	20.6	117	230	96.9	52.5	29.9	19.7	12.9B	10.2 B	26
27	11.0 B	8.70B	8.58B	19.5	115	215	95.3	47.3	29.5	20.0	11.1B	10.5 B	27
28	10.9 B	8.70B	8.65B	18.2	111	198	96.5	43.5	28.8	19.2	12.0B	9.70B	28
29	10.8 B		8.90B	17.0	118	178	92.5	41.5	27.6	18.9	14.5	9.00B	29
30	9.60B		8.93	16.0	165	172	89.6	41.4	26.8	18.5	13.2B	9.30B	30
31	9.50B		9.35		194		89.6	43.7		18.6		9.80B	31
TOTAL	331.96	255.21	265.56	391.26	1 513.8	4 843	3 914.3	2 076.0	1 029.1	669.3	491.4	339.20	TOTAL
MEAN	10.7	9.11	8.57	13.0	49.0	161	126	67.0	34.3	21.6	16.4	10.9	MEAN
MAX	12.1	10.5	9.35	21.1	194	239	177	89.7	43.2	31.2	23.0	14.0	MAX
MIN	8.80	8.30	8.12	9.41	15.6	103	85.9	41.4	26.8	17.4	11.1	9.00	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 44.2
MAXIMUM DAILY, 239 ON JUN 25
MINIMUM DAILY, 8.12B ON MAR 23
MAXIMUM INSTANTANEOUS,
246 AT 10:50 MST ON JUN 02

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 10 30 N
LONG 115 34 10 W

DRAINAGE AREA, 2 210 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	28 700	JUL	338 000
FEB	22 100	AUG	179 000
MAR	23 900	SEP	88 900
APR	33 800	OCT	57 800
MAY	131 000	NOV	42 500
JUN	418 000	DEC	29 300

TOTAL DISCHARGE, 1 390 000 dam³

BOW RIVER AT CALGARY - STATION NO. 05BH004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	64.0B	48.0B	59.0B	57.0B	71.2	370	279	155	86.9	64.5	66.8	68.0B	1
2	62.0B	48.0B	62.0B	63.2	72.0	465	301	166	85.0	64.6	66.4	57.0B	2
3	55.0B	51.0B	62.0B	70.7	70.0	525	305	196	84.7	62.4	63.9	57.0B	3
4	54.0B	50.0B	59.0B	71.0B	68.7	480	283	203	83.8	62.5	60.3	57.0B	4
5	51.0B	52.0B	61.0B	72.0B	65.5	431	277	189	84.0	61.4	61.3	75.0B	5
6	49.0B	52.0B	62.0B	71.5	65.1	384	261	147	83.2	60.3	60.3	81.0B	6
7	48.0B	54.0B	61.0B	69.0B	66.4	326	244	118	82.9	60.2	64.6	71.0B	7
8	51.0B	57.0B	61.0B	62.0B	66.6	299	251	125	81.5	59.8	67.7	63.0B	8
9	54.0B	57.0B	61.0B	69.1	66.3	278	276	133	80.9	60.0	65.9	52.0B	9
10	57.0B	52.0B	55.0B	72.1	68.3	278	262	133	81.2	60.7	62.2	56.0B	10
11	58.0E	51.0B	52.0B	72.2	71.3	276	253	140	81.9	62.6	56.4	71.0B	11
12	60.0E	51.0B	57.0B	70.4	69.1	283	242	148	81.9	63.6	57.9	69.0B	12
13	62.0E	54.0B	58.0B	67.8	62.1	293	243	131	81.9	63.4	60.2	69.0B	13
14	61.0E	54.0B	59.0B	66.8	63.4	282	242	133	81.1	57.3	66.8	71.0B	14
15	52.0E	57.0B	61.0B	60.7	67.5	254	242	144	80.6	58.5	73.2	57.0B	15
16	54.0E	61.0B	62.0B	63.5	74.4	234	234	136	81.0	66.8	79.4	51.0B	16
17	57.0E	58.0B	59.0B	66.3	79.6	232	225	144	80.5	66.7	77.8	55.0B	17
18	59.0E	51.0B	56.0B	67.9	81.4	260	228	130	79.7	68.7	71.5	55.0B	18
19	58.0E	51.0B	57.0B	72.1	75.1	281	236	127	77.2	71.8	71.5	57.0B	19
20	53.0E	52.0B	59.0B	70.8	70.0	292	219	124	77.5	70.3	68.4	54.0B	20
21	51.0B	55.0B	62.0B	64.5	68.0	306	182	123	76.1	61.9	72.0B	57.0B	21
22	52.0B	59.0B	62.0B	61.4	68.6	309	170	120	72.1	57.8	72.0B	48.0B	22
23	51.0B	59.0B	59.0B	64.9	76.2	312	159	127	71.9	54.9	69.0B	39.0B	23
24	51.0B	59.0B	55.0B	62.3	91.9	312	156	157	71.7	65.3	58.0B	40.0B	24
25	52.0B	57.0B	51.0B	68.9	149	321	168	122	68.9	61.9	54.0B	39.0B	25
26	51.0B	59.0B	52.0B	71.1	255	345	205	114	70.5	64.3	51.0B	40.0B	26
27	51.0B	55.0B	52.0B	71.6	267	344	216	105	70.3	61.3	48.0B	47.0B	27
28	51.0B	57.0B	54.0B	69.6	270	333	213	105	69.4	60.8	51.0B	46.0B	28
29	54.0B		59.0B	65.3	284	318	212	107	68.8	61.1	65.0B	39.0B	29
30	51.0B		59.0B	67.6	317	281	206	104	64.4	63.6	74.0B	37.0B	30
31	48.0B		58.0B		343		187	98.2		65.1		40.0B	31
TOTAL	1 660.0	1 524.0	1 806.0	2 023.3	3 575.7	9 704	7 177	4 182.2	2 341.5	1 944.1	1 936.5	1 718.0	TOTAL
MEAN	53.5	54.4	58.3	67.4	115	323	232	135	78.1	62.7	64.6	55.4	MEAN
MAX	64.0	61.0	62.0	72.2	343	525	305	203	86.9	71.8	79.4	81.0	MAX
MIN	48.0	48.0	51.0	57.0	62.1	232	156	98.2	64.4	54.9	48.0	37.0	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 108
MAXIMUM DAILY, 525 ON JUN 03
MINIMUM DAILY, 37.0B ON DEC 30
MAXIMUM INSTANTANEOUS, 530 AT 09:13 MST ON JUN 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 03 00 N
LONG 114 03 00 W
DRAINAGE AREA, 7 860 km²

B - ICE CONDITIONS

REGULATED SINCE 1913

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	143 000	JUL	620 000
FEB	132 000	AUG	361 000
MAR	156 000	SEP	202 000
APR	175 000	OCT	166 000
MAY	309 000	NOV	167 000
JUN	838 000	DEC	148 000

TOTAL DISCHARGE, 3 420 000 dam³

BOW RIVER AT LAKE LOUISE - STATION NO. 05BA001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	3.66	36.2	38.0	28.4	13.6	7.47	---	---	1
2	---	---	---	---	3.77	37.8	34.9	27.5	12.5	6.95	---	---	2
3	---	---	---	---	4.01	35.2	34.2	25.1	11.8	6.41	---	---	3
4	---	---	---	---	4.67	33.5	31.9	23.4	11.4	7.22	---	---	4
5	---	---	---	---	5.94	29.6	30.3	23.6	11.2	8.34	---	---	5
6	---	---	---	---	7.92	25.6	34.5	25.2	11.3	7.30	---	---	6
7	---	---	---	---	7.72	22.5	38.4	26.2	11.8	6.59	---	---	7
8	---	---	---	---	7.27	20.3	37.3	25.3	12.1	6.15	---	---	8
9	---	---	---	---	7.03	19.0	36.7	25.2	12.4	5.92	---	---	9
10	---	---	---	---	6.89	20.5	36.8	25.2	12.8	5.89	---	---	10
11	---	---	---	---	6.98	26.4	36.8	26.1	13.1	5.58	---	---	11
12	---	---	---	---	7.25	26.1	38.9	27.2	12.9	5.39	---	---	12
13	---	---	---	---	7.11	23.3	42.1	27.9	12.1	5.24	---	---	13
14	---	---	---	---	7.20	20.6	41.5	28.4	11.8	5.00	---	---	14
15	---	---	---	---	7.07	19.4	37.2	28.3	12.0	4.83	---	---	15
16	---	---	---	---	7.14	20.6	36.5	27.1	13.7	4.74	---	---	16
17	---	---	---	---	7.30	23.6	34.6	25.6	12.9	4.50B	---	---	17
18	---	---	---	---	7.36	27.0	31.1	24.4	11.2	4.41	---	---	18
19	---	---	---	---	7.79	28.1	28.7	22.8	10.1	4.23	---	---	19
20	---	---	---	---	8.08	28.4	26.3	22.1	9.19	4.03B	---	---	20
21	---	---	---	---	8.69	28.7	24.7	22.6	8.58	3.92	---	---	21
22	---	---	---	---	8.62	30.6	24.0	23.9	8.42	3.82	---	---	22
23	---	---	---	3.74B	9.03	35.2	24.5	25.8	8.85	3.64	---	---	23
24	---	---	---	4.63	10.1	41.6	27.4	19.6	9.53	3.52	---	---	24
25	---	---	---	4.75	12.3	45.1	27.4	17.1	9.94	3.58	---	---	25
26	---	---	---	4.52	15.4	44.8	27.1	15.6	9.77	4.46	---	---	26
27	---	---	---	4.33	17.3	46.4	28.2	13.4	9.36	3.99	---	---	27
28	---	---	---	4.05	19.5	44.0	28.4	12.0	8.84	3.99	---	---	28
29	---	---	---	3.80B	21.7	40.1	27.5	11.8	8.44	3.90	---	---	29
30	---		---	3.65B	29.0	38.4	27.7	13.4	7.98	3.77A	---	---	30
31	---		---		33.7		27.9	14.4		3.75E		---	31
TOTAL	---	---	---	---	317.70	918.6	1 001.5	702.6	329.60	158.53	---	---	TOTAL
MEAN	---	---	---	---	10.2	30.6	32.3	22.7	11.0	5.11	---	---	MEAN
MAX	---	---	---	---	33.7	46.4	42.1	28.4	13.7	8.34	---	---	MAX
MIN	---	---	---	---	3.66	19.0	24.0	11.8	7.98	3.52	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 18.6
MAXIMUM DAILY, 46.4 ON JUN 27
MINIMUM DAILY, 3.52 ON OCT 24
MAXIMUM INSTANTANEOUS, 47.5 AT 05:47 MST ON JUN 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 25 42 N
LONG 116 11 15 W

DRAINAGE AREA, 421 km²

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	86 500
FEB	---	AUG	60 700
MAR	---	SEP	28 500
APR	---	OCT	13 700
MAY	27 400	NOV	---
JUN	79 400	DEC	---

TOTAL DISCHARGE, 296 000 dam³

BOW RIVER BELOW BASSANO DAM - STATION NO. 05BH004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	97.4	6.14	638	222	144	31.3	5.70	86.4A	---	1
2	---	---	---	100	2.12	628	255	116	22.6	5.66	---	---	2
3	---	---	---	99.1	16.5	727	242	110	19.1	5.63	---	---	3
4	---	---	---	99.1	17.4	744	242	129	18.1	5.66	---	---	4
5	---	---	---	98.0	17.5	688	214	132	21.0	5.72	---	---	5
6	---	---	---	97.5	28.1	584	205	116	23.1	5.91	---	---	6
7	---	---	---	93.4	34.5	499	195	82.8	19.2	10.2	---	---	7
8	---	---	---	92.1	55.3	403	189	42.0	15.8	9.33	---	---	8
9	---	---	---	43.8	72.3	367	186	39.5	13.0	8.19	---	---	9
10	---	---	---	36.5	65.6	331	204	51.2	22.3	8.20	---	---	10
11	---	---	---	62.3	63.7	328	184	46.9	7.39	8.20	---	---	11
12	---	---	---	76.6	63.2	328	172	55.9	10.9	106	---	---	12
13	---	---	---	78.7	65.0	311	155	58.4	12.3	121	---	---	13
14	---	---	---	78.8	56.7	312	146	47.0	7.83	86.5	---	---	14
15	---	---	---	78.7	35.2	297	145	50.4	6.73	89.9	---	---	15
16	---	---	---	58.9	31.7	257	144	53.7	6.83	86.3	---	---	16
17	---	---	---	60.6	31.4	237	136	48.5	10.9	89.9	---	---	17
18	---	---	---	61.6	31.1	241	126	57.0	11.1	90.9	---	---	18
19	---	---	---	48.2	30.4	257	147	99.3	8.24	88.2	---	---	19
20	---	---	---	43.2	25.1	275	165	85.8	6.39	90.6	---	---	20
21	---	---	---	41.3	29.8	280	152	70.1	5.34	91.9	---	---	21
22	---	---	---	35.5	12.0	290	114	66.5	4.24	87.4	---	---	22
23	---	---	---	36.4	16.7	297	98.9	62.7	4.80	80.4	---	---	23
24	---	---	---	29.8	15.2	297	83.6	64.7	4.85	77.5	---	---	24
25	---	---	---	23.4	60.9	306	72.3	65.3	4.95	79.6	---	---	25
26	---	---	---	32.0	314	308	88.5	65.2	5.37	84.1	---	---	26
27	---	---	74.3A	21.1	634	317	171	66.5	5.38	82.1	---	---	27
28	---	---	75.6	34.4	598	305	196	51.0	5.44	83.3	---	---	28
29	---	---	77.3	30.6	485	299	185	45.4	5.53	79.9	---	---	29
30	---		84.0	12.6	536	270	180	43.1	5.54	80.8	---	---	30
31	---		96.2		640		165	40.5		82.0		---	31
TOTAL	---	---	---	1 801.6	4 097.76	11 411	5 138.3	2 202.4	346.23	1 836.70	---	---	TOTAL
MEAN	---	---	---	60.1	132	380	166	71.0	11.5	59.2	---	---	MEAN
MAX	---	---	---	100	640	744	242	144	31.3	121	---	---	MAX
MIN	---	---	---	12.6	5.32	237	72.3	39.5	4.24	5.63	---	---	MIN

SUMMARY FOR THE MONTHS APR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 125
MAXIMUM DAILY, 744 ON JUN 04
MINIMUM DAILY, 4.24 ON SEP 22
MAXIMUM INSTANTANEOUS, 834E AT 17:40 MST ON JUN 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 45 00 N
LONG 112 32 20 W
DRAINAGE AREA, 20 300 km²

E - ESTIMATED
REGULATED

REMARKS - MAXIMUM DISCHARGE WAS DERIVED FROM HIGH WATER MARKS

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	444 000
FEB	---	AUG	190 000
MAR	---	SEP	29 900
APR	156 000	OCT	159 000
MAY	354 000	NOV	---
JUN	986 000	DEC	---

TOTAL DISCHARGE, 2 320 000 dam³

BOW RIVER BELOW BEARSPAW DAM - STATION NO. 05BH008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	63.7	48.1B	59.5	56.7	72.2	382	298	163	86.5	63.7	65.9	63.6	1
2	62.2	48.1B	62.3	62.4	73.6	466	319	176	85.1	63.6	65.8	53.8	2
3	55.1	50.9B	62.4	70.8	70.9	515	321	209	85.0	61.2	62.3	53.9	3
4	53.8	48.6B	55.4	71.0	70.7	469	301	220	84.9	61.2	58.5	53.6	4
5	50.9	51.9B	60.9	71.8	65.0	433	296	200	84.5	58.6	59.9	69.8	5
6	49.3	52.5B	62.4	70.8	66.5	387	277	150	83.6	58.6	58.8	74.8	6
7	48.1	53.6B	60.8	69.4	68.1	335	259	122	83.8	58.6	61.7	66.4	7
8	51.0	56.0B	60.7	63.8	67.9	309	272	133	81.2	58.5	66.5	59.7	8
9	53.8	55.9B	60.9	69.4	69.3	290	294	140	81.1	58.6	64.1	49.8	9
10	56.6	52.5B	55.2	72.2	70.8	289	281	140	81.3	58.8	62.0	53.5	10
11	57.9	51.5B	52.3	72.1	72.2	288	271	150	81.3	62.5	53.7	65.8	11
12	57.9	51.4B	56.6	69.4	69.2	296	262	156	81.1	62.5	56.0	64.6	12
13	52.4	50.4B	58.1	66.5	62.4	307	261	138	81.2	61.1	58.5	65.0	13
14	51.0	51.1B	59.5	65.1	65.2	295	260	142	79.3	55.0	66.0	65.9	14
15	52.3	53.1B	60.9	58.0	70.9	268	259	152	78.4	57.3	73.6	53.7	15
16	53.8	56.0B	62.2	62.1	79.3	249	252	141	78.4	63.7	78.5	48.4	16
17	56.7	50.3B	59.6	66.5	84.9	249	244	135	78.3	66.0	76.0	54.3B	17
18	59.4	44.9B	55.4	68.0	86.4	280	243	133	78.9	68.5	68.4	53.7B	18
19	58.0	46.7B	56.6	72.4	76.5	297	253	129	75.9	71.3	69.7	52.4B	19
20	52.6	49.3B	59.5	70.7	70.8	311	233	129	76.0	69.8	66.0	53.5B	20
21	51.1	53.5B	62.3	63.8	69.4	329	192	127	75.6	59.7	67.1	56.5B	21
22	52.4	57.2B	62.2	59.4	70.8	332	179	125	71.2	56.1	67.1	47.8B	22
23	51.0	57.7B	59.5	62.7	80.7	335	166	133	71.4	53.8	64.5	39.4B	23
24	50.9	56.0B	55.1	62.4	95.5	331	164	133	71.0	66.0	54.9	39.6B	24
25	52.4	56.6	50.9	69.5	168	341	177	125	68.0	61.0	50.9	39.4B	25
26	50.9	59.1	52.3	71.2	273	364	222	117	68.6	63.8	48.7	39.7B	26
27	50.9	55.4	54.4	71.9	273	361	231	108	68.5	59.9	46.2	46.6B	27
28	50.9	56.7	53.9	69.1	286	351	228	110	68.4	59.9	48.5	45.4B	28
29	53.0B		59.4	66.1	297	335	229	112	68.4	59.7	61.1	38.5B	29
30	49.3B		59.5	69.3	329	299	221	107	63.8	63.1	68.5	36.6B	30
31	45.8B		50.0		356		195	99.6		63.7		39.6B	31
TOTAL	1 655.1	1 481.8	1 810.7	2 013.5	3 731.2	10 093	7 660	4 354.6	2 320.7	1 905.8	1 871.4	1 645.3	TOTAL
MEAN	53.4	52.9	58.4	67.1	120	336	247	140	77.4	61.5	62.4	53.1	MEAN
MAX	63.7	59.1	62.4	72.4	356	515	321	220	86.5	71.3	78.5	74.8	MAX
MIN	45.8	44.9	50.9	56.7	62.4	249	164	99.6	63.8	53.8	46.2	36.6	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 111
MAXIMUM DAILY, 515 ON JUN 03
MINIMUM DAILY, 36.6B ON DEC 30

DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 05 58 N
LONG 114 13 31 W
DRAINAGE AREA, 7 770 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	143 000	JUL	662 000
FEB	128 000	AUG	376 000
MAR	156 000	SEP	201 000
APR	174 000	OCT	165 000
MAY	322 000	NOV	162 000
JUN	872 000	DEC	142 000

TOTAL DISCHARGE, 3 500 000 dam³

BOW RIVER BELOW CARSELAND DAM - STATION NO. 05BM002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	76.4	44.1	638	296	181	77.5	45.0	83.2	---	1
2	---	---	---	78.4	51.5	711	301	164	71.4	44.8	83.9A	---	2
3	---	---	---	86.1	57.3	855	327	192	71.5	50.0	---	---	3
4	---	---	---	93.1	55.8	766	304	197	71.1	55.3	---	---	4
5	---	---	---	93.8	63.0	632	283	187	69.6	63.4	---	---	5
6	---	---	---	89.4	71.5	569A	278	156	65.7	63.3	---	---	6
7	---	---	---	88.1	92.2	474A	263	116	64.0	64.6	---	---	7
8	---	---	---	84.2	96.5	415	258	107	61.0	64.2	---	---	8
9	---	---	---	82.3	99.5	375	287	118	59.1	64.9	---	---	9
10	---	---	---	84.0	95.5	366	266	115	57.7	64.3	---	---	10
11	---	---	---	83.3	93.6	375	258	119	54.1	68.4	---	---	11
12	---	---	---	82.1	97.1	369	239	128	53.1	74.5	---	---	12
13	---	---	---	80.6	88.1	366	235	118	54.2	81.5	---	---	13
14	---	---	---	79.1	77.8	356	231	110	52.9	82.2	---	---	14
15	---	---	---	77.9	73.7	322	230	117	52.2	81.6	---	---	15
16	---	---	---	76.4	72.3	287	227	114	53.6	85.1	---	---	16
17	---	---	---	77.2	79.4	290	208	119	51.1	86.5	---	---	17
18	---	---	---	74.2	78.6	301	214	154	49.2	83.9	---	---	18
19	---	---	---	68.2	76.1	330	225	147	48.1	86.6	---	---	19
20	---	---	---	66.8	73.6	327	226	121	46.3	87.7	---	---	20
21	---	---	---	64.0	69.8	354	186	122	46.6	83.6	---	---	21
22	---	---	---	62.6	70.1	352	161	112	44.4	77.6	---	---	22
23	---	---	---	57.7	71.4	358	155	113	41.7	73.2	---	---	23
24	---	---	---	57.1	94.8	363	139	116	41.5	74.4	---	---	24
25	---	---	---	57.3	246 A	373	145	113	38.6	80.9	---	---	25
26	---	---	---	60.7	674	388	210	117	38.1	79.5	---	---	26
27	---	---	---	57.6	731	384	266	109	38.6	79.2	---	---	27
28	---	---	70.7A	55.1	566	367	260	100	36.1	76.6	---	---	28
29	---	---	69.4	49.5	563	350	248	99.7	35.7	78.0	---	---	29
30	---	---	69.4	42.5	673	313	237	92.4	38.3	79.0	---	---	30
31	---		73.9		678		216	86.3		81.7		---	31
TOTAL	---	---	75.0	2 183.7	5 974.3	12 734	7 379	3 960.4	1 580.7	2 261.5	---	---	TOTAL
MEAN	---	---	---	72.8	193	424	238	128	52.7	73.0	---	---	MEAN
MAX	---	---	---	93.8	731	855	327	197	77.5	87.7	---	---	MAX
MIN	---	---	---	42.5	44.1	287	139	86.3	35.7	44.8	---	---	MIN

SUMMARY FOR THE MONTHS APR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 169
MAXIMUM DAILY, 855 ON JUN 03
MINIMUM DAILY, 35.7 ON SEP 29
MAXIMUM INSTANTANEOUS, 868 AT 09:45 MST ON JUN 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 49 26 N
LONG 113 26 31 W

DRAINAGE AREA, 15 700 km²
A - MANUAL GAUGE

REGULATED SINCE 1908

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	638 000
FEB	---	AUG	342 000
MAR	---	SEP	137 000
APR	189 000	OCT	195 000
MAY	516 000	NOV	---
JUN	1 100 000	DEC	---

TOTAL DISCHARGE, 3 120 000 dam³

BOW RIVER DEVELOPMENT DRAIN "A" NEAR HAYS - STATION NO. 05AG004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.012	0.309	0.972	0.202	0.144	0.537	0.009A	---	1
2	---	---	---	---	0.011	0.137	0.839	0.121	0.242	0.521	---	---	2
3	---	---	---	---	0.010	0.150	0.819	0.119	0.259	0.452	---	---	3
4	---	---	---	---	0.009	0.146	0.815	0.125	0.214	0.551	---	---	4
5	---	---	---	---	0.008	0.169	0.832	0.161	0.122	0.746	---	---	5
6	---	---	---	---	0.006	0.176	0.768	0.224	0.114	0.836	---	---	6
7	---	---	---	---	0.005	0.176	0.817	0.254	0.124	0.726	---	---	7
8	---	---	---	---	0.006	0.118	0.830	0.121	0.060	0.791	---	---	8
9	---	---	---	---	0.004	0.108	0.707	0.161	0.047	0.804	---	---	9
10	---	---	---	---	0.004	0.100	0.635	0.200	0.052	0.621	---	---	10
11	---	---	---	---	0.002	0.149	0.718	0.111	0.041	0.335	---	---	11
12	---	---	---	---	0.003	0.252	0.690	0.200	0.070	0.120	---	---	12
13	---	---	---	---	0.002	0.374	0.681	0.169	0.323	0.057	---	---	13
14	---	---	---	---	0.002	0.244	0.744	0.049	0.197	0.032	---	---	14
15	---	---	---	---	0.034	0.303	0.841	0.122	0.189	0.024	---	---	15
16	---	---	---	---	0.084	0.258	0.752	0.206	0.162	0.023	---	---	16
17	---	---	---	---	0.028	0.160	0.730	0.172	0.234	0.023	---	---	17
18	---	---	---	---	0.032	0.165	0.712	0.216	0.415	0.021	---	---	18
19	---	---	---	---	0.131	0.177	0.949	0.284	0.445	0.021	---	---	19
20	---	---	---	---	0.111	0.329	1.07	0.383	0.326	0.018	---	---	20
21	---	---	---	---	0.119	0.197	1.02	0.139	0.373	0.016	---	---	21
22	---	---	---	---	0.098	0.226	1.00	0.104	0.267	0.015	---	---	22
23	---	---	---	0.018A	0.135	0.205	1.18	0.113	0.300	0.013	---	---	23
24	---	---	---	0.014	0.241	0.295	1.03	0.155	0.308	0.010	---	---	24
25	---	---	---	0.013	0.455	0.383	0.724	0.221	0.357	0.012	---	---	25
26	---	---	---	0.013	0.083	0.298	0.450	0.293	0.330	0.009	---	---	26
27	---	---	---	0.014	0.031	0.313	0.313	0.287	0.342	0.009	---	---	27
28	---	---	---	0.015	0.024	0.464	0.234	0.262	0.391	0.009	---	---	28
29	---	---	---	0.014	0.023	0.750	0.189	0.166	0.521	0.009	---	---	29
30	---		---	0.012	0.127	1.09	0.145	0.147	0.614	0.007	---	---	30
31	---		---		0.295		0.142	0.165		0.010		---	31
TOTAL	---	---	---	---	2.135	8.221	22.345	5.652	7.583	7.378	---	---	TOTAL
MEAN	---	---	---	---	0.069	0.274	0.721	0.182	0.253	0.238	---	---	MEAN
MAX	---	---	---	---	0.455	1.09	1.18	0.363	0.614	0.836	---	---	MAX
MIN	---	---	---	---	0.002	0.100	0.142	0.049	0.041	0.007	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.290
MAXIMUM DAILY, 1.18 ON JUL 23
MINIMUM DAILY, 0.002 ON MAY 11

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 50 20 N
LONG 111 43 30 W

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 930
FEB	---	AUG	488
MAR	---	SEP	655
APR	---	OCT	637
MAY	184	NOV	---
JUN	710	DEC	---

TOTAL DISCHARGE, 4 600 dam³

BOW RIVER DEVELOPMENT DRAIN D NEAR VAUDHALL - STATION NO. 05BN008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.002	0.558	1.26	0.841	1.14	1.63	---	---	1
2	---	---	---	---	0.001	0.522	1.27	0.865	1.03	1.60	---	---	2
3	---	---	---	---	0.001	0.511	1.23	0.914	0.970	1.56	---	---	3
4	---	---	---	---	0	0.543	1.33	0.959	1.13	1.43	---	---	4
5	---	---	---	---	0	0.473	1.03	0.841	1.06	1.29	---	---	5
6	---	---	---	---	0	0.363	1.20	0.661	1.12	1.40	---	---	6
7	---	---	---	---	0	0.340	1.31	0.795	1.26	1.41	---	---	7
8	---	---	---	---	0	0.321	1.56	1.15	1.20	1.34	---	---	8
9	---	---	---	---	0	0.386	1.52	1.14	1.42	1.24	---	---	9
10	---	---	---	---	0	0.404	0.887	1.32	1.57	1.14	---	---	10
11	---	---	---	---	0	0.474	1.08	1.10	1.37	1.22	---	---	11
12	---	---	---	---	0	0.800	1.10	1.26	1.35	1.02	---	---	12
13	---	---	---	---	0	0.760	0.982	1.33	1.33	0.330	---	---	13
14	---	---	---	---	0	0.915	1.15	1.30	1.13	0.046	---	---	14
15	---	---	---	---	0.101	0.813	1.13	1.32	1.18	0.036	---	---	15
16	---	---	---	---	0.345	0.831	1.20	1.51	1.37	0.056	---	---	16
17	---	---	---	---	0.515	0.989	1.04	1.31	1.44	0.046	---	---	17
18	---	---	---	---	0.711	0.909	1.69	1.23	1.60	0.025	---	---	18
19	---	---	---	---	1.10	0.921	2.07	1.20	1.49	0.014	---	---	19
20	---	---	---	---	0.798	0.976	1.98	1.25	1.32	0.010	---	---	20
21	---	---	---	---	0.878	0.883	1.93	1.36	1.27	0.007	---	---	21
22	---	---	---	---	0.762	1.46	1.91	1.23	1.32	0.007	---	---	22
23	---	---	---	---	0.594	1.46	1.88	1.14	1.13	0.005	---	---	23
24	---	---	---	---	0.585	1.25	1.39	1.22	1.19	0.002	---	---	24
25	---	---	---	---	0.714	1.51	0.988	1.26	1.30	0.002	---	---	25
26	---	---	---	---	0.531	1.22	1.35	1.33	1.47	0.002	---	---	26
27	---	---	---	---	0.504	1.02	1.67	1.34	1.59	0.002	---	---	27
28	---	---	---	---	0.505	1.19	1.53	1.29	1.81	0.001	---	---	28
29	---	---	---	---	0.560	1.11	1.39	1.06	1.80	0.002A	---	---	29
30	---		---	0.002A	0.655	1.38	1.31	0.930	1.64	0.002E	---	---	30
31	---		---		0.582		1.02	1.02		0.002E		---	31
TOTAL	---	---	---	---	10.444	25.264	42.387	35.476	40.000	16.877	---	---	TOTAL
MEAN	---	---	---	---	0.337	0.842	1.37	1.14	1.33	0.544	---	---	MEAN
MAX	---	---	---	---	1.10	1.51	2.07	1.51	1.81	1.63	---	---	MAX
MIN	---	---	---	---	0	0.321	0.887	0.661	0.970	0.001	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.926
MAXIMUM DAILY, 2.07 ON JUL 19
MINIMUM DAILY, 0 ON MAY 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 11 40 N
LONG 112 02 50 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 660
FEB	---	AUG	3 070
MAR	---	SEP	3 460
APR	---	OCT	1 460
MAY	902	NOV	---
JUN	2 180	DEC	---

TOTAL DISCHARGE, 14 700 dam³

BOW RIVER DEVELOPMENT DRAIN T NEAR HAYS - STATION NO. 05AG005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.007E	0.180	0.692	0.475	0.500	0.464	0.020A	---	1
2	---	---	---	---	0.007E	0.269	0.827	0.436	0.547	0.402	---	---	2
3	---	---	---	---	0.006E	0.222	0.796	0.463	0.511	0.565	---	---	3
4	---	---	---	---	0.006E	0.207	0.820	0.483	0.447	0.628	---	---	4
5	---	---	---	---	0.005E	0.227	0.863	0.684	0.480	0.532	---	---	5
6	---	---	---	---	0.005E	0.237	0.831	0.994	0.553	0.622	---	---	6
7	---	---	---	---	0.005E	0.255	0.590	0.637	0.489	0.728	---	---	7
8	---	---	---	---	0.005E	0.290	0.622	0.561	0.397	0.835	---	---	8
9	---	---	---	---	0.005A	0.282	0.687	0.418	0.403	0.904	---	---	9
10	---	---	---	---	0.007	0.203	0.494	0.408	0.441	0.681	---	---	10
11	---	---	---	---	0.006	0.224	0.545	0.414	0.489	0.680	---	---	11
12	---	---	---	---	0.015	0.297	0.673	0.530	0.584	0.287	---	---	12
13	---	---	---	---	0.015	0.367	0.730	0.624	0.472	0.160	---	---	13
14	---	---	---	---	0.013	0.362	0.748	0.528	0.459	0.114	---	---	14
15	---	---	---	---	0.019	0.341	0.766	0.363	0.469	0.095	---	---	15
16	---	---	---	---	0.119	0.327	0.806	0.333	0.492	0.096	---	---	16
17	---	---	---	---	0.068	0.296	0.772	0.300	0.447	0.082	---	---	17
18	---	---	---	---	0.040	0.302	0.855	0.404	0.416	0.072	---	---	18
19	---	---	---	---	0.120	0.301	0.986	0.506	0.368	0.069	---	---	19
20	---	---	---	---	0.109	0.293	1.19	0.610	0.507	0.062	---	---	20
21	---	---	---	---	0.137	0.416	0.979	0.498	0.479	0.048	---	---	21
22	---	---	---	---	0.130	0.541	0.758	0.349	0.639	0.047	---	---	22
23	---	---	---	0.013A	0.159	0.412	0.693	0.361	0.686	0.043	---	---	23
24	---	---	---	0.012E	0.092	0.327	0.711	0.441	0.810	0.039	---	---	24
25	---	---	---	0.011E	0.277	0.382	0.797	0.513	0.798	0.033	---	---	25
26	---	---	---	0.010E	0.157	0.306	0.733	0.586	0.653	0.030	---	---	26
27	---	---	---	0.010E	0.105	0.314	0.656	0.656	0.511	0.025	---	---	27
28	---	---	---	0.009E	0.163	0.434	0.609	0.594	0.444	0.021	---	---	28
29	---	---	---	0.009E	0.162	0.542	0.476	0.324	0.499	0.022	---	---	29
30	---		---	0.008E	0.203	0.548	0.428	0.362	0.561	0.022	---	---	30
31	---		---		0.117		0.561	0.481		0.021		---	31
TOTAL	---	---	---	---	2.304	9.784	22.697	15.336	15.551	8.429	---	---	TOTAL
MEAN	---	---	---	---	0.074	0.326	0.732	0.495	0.518	0.272	---	---	MEAN
MAX	---	---	---	---	0.277	0.548	1.19	0.994	0.810	0.904	---	---	MAX
MIN	---	---	---	---	0.005	0.180	0.428	0.300	0.368	0.021	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.403
MAXIMUM DAILY, 1.19 ON JUL 20
MINIMUM DAILY, 0.005E ON MAY 05

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 55 00 N
LONG 111 43 40 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 960
FEB	---	AUG	1 330
MAR	---	SEP	1 340
APR	---	OCT	728
MAY	199	NOV	---
JUN	845	DEC	---

TOTAL DISCHARGE, 6 400 dam³

BOW RIVER DEVELOPMENT MAIN CANAL - STATION NO. 05AC004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0	34.8	7.46	33.0	33.3	33.1	33.0	0	---	1
2	---	---	---	0	35.1	7.45	33.4	33.3	32.8	32.5	0	---	2
3	---	---	---	0	35.4	3.83	34.6	33.1	32.7	31.2	0	---	3
4	---	---	---	0	35.5	0.752	33.6	32.5	32.5	23.9	0	---	4
5	---	---	---	0	35.5	6.19	33.6	32.7	32.9	16.9	0	---	5
6	---	---	---	0	35.7	14.1	34.6	32.7	32.9	12.7	0	---	6
7	---	---	---	0	35.1	14.4	34.5	32.0	32.6	12.3	0	---	7
8	---	---	---	0	27.6	14.5	34.1	31.9	32.5	12.3	0	---	8
9	---	---	---	0	16.6	14.2	33.7	32.8	32.4	11.8	0	---	9
10	---	---	---	0	9.95	14.0	33.9	32.4	32.9	12.2	0	---	10
11	---	---	---	0	8.12	13.9	34.2	32.5	33.3	12.3	0	---	11
12	---	---	---	0	15.5	15.2	33.7	32.9	33.3	8.43	0	---	12
13	---	---	---	0	17.0	21.2	33.0	32.9	34.3	6.93	0	---	13
14	---	---	---	0	17.5	21.6	33.0	32.4	34.2	3.20	0	---	14
15	---	---	---	0	23.7	22.5	33.0	32.4	34.1	0.649	0	---	15
16	---	---	---	0	28.5	29.8	33.0	32.9	34.0	0.135	0	---	16
17	---	---	---	0	30.7	31.1	33.2	33.1	33.9	0.009	0	---	17
18	---	---	---	4.83A	30.2	31.4	34.3	33.0	33.9	0	0	---	18
19	---	---	---	16.8	33.4	33.8	33.4	33.9	33.6	0	0	---	19
20	---	---	---	24.4	34.4	33.4	33.4	33.3	33.6	0	0	---	20
21	---	---	---	29.0	34.4	34.7	33.3	32.6	33.6	0	0	---	21
22	---	---	---	29.4	34.3	34.6	32.5	32.8	33.6	0	0	---	22
23	---	---	0A	29.7	35.1	34.3	31.9	32.9	33.4	0	0	---	23
24	---	---	0	33.2	35.7	34.2	31.7	33.0	33.5	0	0	---	24
25	---	---	0	34.5	29.2	34.3	31.6	32.6	34.0	0	0	---	25
26	---	---	0	35.1	17.3	34.1	32.0	32.7	34.0	0	0	---	26
27	---	---	0	35.5	12.0	34.3	32.1	32.5	34.1	0	0	---	27
28	---	---	0	35.5	10.0	34.1	32.4	32.9	33.8	0	0A	---	28
29	---	---	0	35.4	10.9	33.9	34.7	33.6	33.2	0	0E	---	29
30	---		0	34.8	9.89	32.1	34.1	33.8	32.9	0	0E	---	30
31	---		0		7.73		33.8	33.5		0		---	31
TOTAL	---	---	---	378.13	776.49	691.382	1 039.1	1 018.9	1 001.6	230.453	0	---	TOTAL
MEAN	---	---	---	12.6	25.0	23.0	33.5	32.9	33.4	7.43	0	---	MEAN
MAX	---	---	---	35.5	35.7	34.7	35.2	33.9	34.3	33.0	0	---	MAX
MIN	---	---	---	0	7.73	0.752	31.6	31.9	32.4	0	0	---	MIN

SUMMARY FOR THE MONTHS APR TO NOV

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 21.0
MAXIMUM DAILY, 35.7 ON MAY 06
MINIMUM DAILY, 0 ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 44 46 N
LONG 113 01 17 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED SINCE 1918

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	89 800
FEB	---	AUG	88 000
MAR	---	SEP	86 500
APR	32 700	OCT	19 900
MAY	67 100	NOV	0
JUN	59 700	DEC	---

TOTAL DISCHARGE, 444 000 dam³

BOW RIVER NEAR SEEBE - STATION NO. 05BE004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	42.0B	47.9B	60.2	52.8	58.7	354	281	163	86.1	59.6	69.0	54.3	1
2	46.4B	53.7B	57.9	56.0	49.9	383	281	162	75.2	63.2	67.3	38.6	2
3	44.3B	56.5B	53.9	56.4	48.5	346	265	159	69.3	66.5	59.3	62.6	3
4	43.2B	50.1B	50.9	60.3	53.5	342	265	152	82.4	61.7	45.4	74.7	4
5	55.9B	50.7B	54.0	59.6	45.2	346	246	141	76.9	67.6	57.9	77.8	5
6	55.3B	55.1B	59.6	59.0	42.8	307	236	131	82.2	68.0	53.2	68.8	6
7	45.9B	54.1B	54.7	54.2	61.0	276	247	134	88.8	60.8	69.2	63.4	7
8	49.7B	54.7B	61.1	44.4	77.4	250	252	139	77.7	50.0	64.6	48.8	8
9	51.6B	50.7B	60.8	53.6	63.2	236	252	140	71.5	55.3	61.2	40.2	9
10	52.2B	51.1B	52.6	57.5	67.2	228	247	137	68.8	61.4	55.6	58.1	10
11	43.5B	50.2B	53.2	57.9	69.7	251	235	135	79.6	65.4	42.2	69.9	11
12	47.8B	44.9B	57.7	54.7	64.0	276	242	118	84.4	68.1	49.6	61.4B	12
13	46.7B	48.0B	60.5	55.0	47.1	256	243	119	78.9	62.7	68.0	45.9B	13
14	56.6B	48.6B	57.6	40.6	58.6	237	244	128	79.3	42.2	72.1	43.0B	14
15	54.1B	50.7B	61.6	48.3	61.8	222	236	127	80.5	55.3	73.7	44.8B	15
16	54.9B	48.3B	57.2	43.5	65.9	227	225	126	70.1	64.8	78.1	38.6B	16
17	52.7B	44.1B	59.5	48.4	60.4	237	224	121	64.8	67.3	58.4	52.8B	17
18	45.8B	40.1B	55.5	50.5	61.0	252	215	116	81.6	71.9	50.0	56.7B	18
19	45.1B	43.7B	57.4	57.2	58.1	270	200	103	78.8	66.4	54.1	46.2B	19
20	44.9B	51.2B	57.7	51.3	46.4	278	190	98.8	76.6	60.1	65.4	55.1B	20
21	48.9B	59.9	60.7	55.0	58.1	278	175	102	71.6	40.0	62.2	43.2B	21
22	56.1B	62.1	60.8	45.9	63.1	285	157	107	67.5	50.7	65.8	42.6B	22
23	56.6B	59.4	61.8	51.9	73.9	302	161	106	58.4	61.9	68.0	32.5B	23
24	55.0B	62.2	55.5	58.8	83.7	327	166	110	56.8	65.5	50.9	39.6B	24
25	52.4B	53.6	46.3	58.5	111	348	167	101	62.2	67.0	36.0	41.3B	25
26	55.6B	55.2	56.4	63.2	198	357	193	90.7	62.5	64.9	38.3	38.4B	26
27	46.0B	57.1	60.6	60.9	215	357	200	91.7	63.6	58.2	70.1	40.3B	27
28	48.3B	58.3	61.5	61.8	212	341	196	91.4	64.8	52.7	64.3	47.9B	28
29	45.4B		59.7	47.9	218	309	183	91.8	59.7	60.7	73.3	38.2B	29
30	45.1B		67.0	47.7	253	290	178	87.6	55.8	63.4	70.8	36.0B	30
31	43.3B		60.6		323		163	90.1		64.1		39.6B	31
TOTAL	1 530.3	1 462.2	1 794.5	1 604.8	2 969.2	8 768	6 765	3 710.1	2 176.4	1 886.9	1 [illegible]14.0	1 541.3	TOTAL
MEAN	49.4	52.2	57.9	53.5	95.8	292	218	120	72.5	60.9	60.5	49.7	MEAN
MAX	56.6	62.2	67.0	63.2	323	383	281	163	88.8	71.9	78.1	77.8	MAX
MIN	42.0	40.1	46.3	40.3	42.8	222	157	87.6	55.8	40.0	36.0	32.5	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 98.7
MAXIMUM DAILY, 383 ON JUN 02
MINIMUM DAILY, 32.5B ON DEC 23

DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 07 10 N
LONG 115 02 00 W
DRAINAGE AREA, 5 170 km²

B - ICE CONDITIONS

REGULATED SINCE 1911

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	132 000	JUL	584 000
FEB	126 000	AUG	321 000
MAR	155 000	SEP	188 000
APR	139 000	OCT	163 000
MAY	257 000	NOV	157 000
JUN	758 000	DEC	133 000

TOTAL DISCHARGE, 3 110 000 dam³

BOW RIVER NEAR THE MOUTH - STATION NO. 05BN012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	78.0B	47.0B	74.0B	90.0B	35.2	659	295	181	54.5	16.0	78.1	26.0B	1
2	77.9B	46.0B	74.7B	89.5B	21.3	645	246	158	46.2	15.2	81.0	32.0B	2
3	77.5B	47.0B	75.0B	96.4	14.6	646	247	132	41.5	17.7	82.1	37.0B	3
4	74.8B	49.0B	75.5B	93.2	10.0	792	260	117	36.2	16.8	84.3	43.0B	4
5	73.9B	50.0B	75.8B	95.9	7.64	817	272	136	27.4	16.0	83.0	48.0B	5
6	73.0B	53.0B	76.0B	95.7	18.7	706	246	142	22.8	17.6	73.2B	52.0B	6
7	72.0B	54.0B	77.0B	97.0	23.9	620	234	135	31.5	17.1	74.0B	55.6B	7
8	71.5B	55.0B	77.5B	94.4	27.1	530	227	110	28.0	17.4	75.0B	57.1B	8
9	70.8B	56.0B	78.0B	94.0	39.0	447	218	74.8	30.3	17.5	77.0B	58.5B	9
10	69.8B	56.7B	78.2B	85.4	69.3	400	213	52.0	25.0	21.2	78.0B	59.0B	10
11	69.0B	57.0B	78.6B	34.2	78.3	367	239	53.1	25.2	22.7	78.0B	58.0B	11
12	68.4B	58.0B	79.0B	41.9	72.1	366	207	65.5	29.5	17.3	77.0B	56.0B	12
13	68.0B	58.3B	79.0B	75.4	71.7	370	198	60.7	23.0	17.4	76.0	54.0B	13
14	68.0B	58.9B	79.0B	82.4	68.4	347	179	69.7	18.5	138	89.0	52.0B	14
15	68.0B	59.0B	78.6B	83.0	74.7	342	170	74.0	21.0	93.0	78.6	51.0B	15
16	68.0B	59.0B	78.0B	82.8	60.1	324	169	58.7	20.5	91.8	78.4	50.8B	16
17	67.8B	59.0B	77.3B	77.3	43.6	281	165	64.6	18.1	85.8	82.8	51.9B	17
18	67.1B	59.5B	77.0B	59.1	42.8	262	164	69.5	18.5	85.8	90.6	50.5B	18
19	66.9B	60.0B	76.5B	75.4	46.0	261	156	69.9	18.2	91.4	92.0B	40.0B	19
20	66.0B	60.5B	76.0B	54.6	50.3	275	162	104	21.2	88.7	64.0B	30.0B	20
21	65.4B	61.0B	75.8B	45.2	50.1	293	176	107	21.4	87.5	30.0B	24.0B	21
22	65.1B	62.0B	75.5B	46.4	46.5	296	174	85.0	19.8	89.9	22.0B	22.0B	22
23	64.7B	65.0B	75.8B	43.2	50.3	311	142	84.3	17.4	88.3	18.0B	23.0B	23
24	63.9B	67.0B	76.2B	40.6	38.1	316	116	74.4	17.8	80.8	16.5B	24.1B	24
25	63.0B	69.0B	77.8B	42.6	43.8	319	114	72.7	16.5	75.5	16.0B	28.0B	25
26	62.5B	71.5B	78.0B	34.2	39.7	330	94.3	78.1	15.4	71.9	16.5B	32.0B	26
27	62.0B	71.8B	78.7B	29.1	360	335	96.9	78.1	15.6	80.4	17.5B	34.0B	27
28	60.0B	72.7B	77.5B	36.5	704	340	160	79.0	15.1	78.5	19.0B	34.5B	28
29	58.0B		78.0B	25.4	592	329	213	71.5	14.7	80.1	22.0B	34.7B	29
30	54.0B		80.0B	37.9	507	314	201	59.0	17.1	77.0	23.0B	34.7B	30
31	50.0B		89.8B		578		190	52.4		76.2		34.8B	31
TOTAL	2 085.0	1 642.9	2 404.0	1 978.7	3 884.24	12 640	5 944.2	2 769.0	727.7	1 790.5	1 792.6	1 288.2	TOTAL
MEAN	67.3	58.7	77.5	66.0	125	421	192	89.3	24.3	57.8	59.8	41.6	MEAN
MAX	78.0	72.7	89.8	97.0	704	817	295	181	54.5	138	92.0	59.0	MAX
MIN	50.0	46.0	74.0	25.4	7.64	261	94.3	52.0	14.7	15.2	16.0	22.0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 107
MAXIMUM DAILY, 817 ON JUN 05
MINIMUM DAILY, 7.64 ON MAY 05
MAXIMUM INSTANTANEOUS,
851 AT 16:15 MST ON JUN 04

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 02 47 N
LONG 111 35 28 W
DRAINAGE AREA, 25 300 km²

B - ICE CONDITIONS

REGULATED SINCE 1911

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	180 000	JUL	514 000
FEB	142 000	AUG	239 000
MAR	208 000	SEP	62 900
APR	171 000	OCT	155 000
MAY	336 000	NOV	155 000
JUN	1 090 000	DEC	111 000

TOTAL DISCHARGE, 3 360 000 dam³

BOYER RIVER NEAR FORT VERMILION - STATION NO. 07JF002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.003B	0.111B	17.3	3.34	0.352	0.015	0.002	0.003	---	---	1
2	---	---	0.040B	0.133B	16.5	2.96	0.259	0.017	0.002	0.005	---	---	2
3	---	---	0.084B	0.164B	15.7	2.74	0.187	0.011	0.002	0.006	---	---	3
4	---	---	0.080B	0.194B	15.3	2.57	0.138	0.008	0.002	0.005	---	---	4
5	---	---	0.080B	0.248B	15.1	2.63	0.099	0.006	0.002	0.005	---	---	5
6	---	---	0.076B	0.321B	15.8	2.84	0.074	0.006	0.002	0.005	---	---	6
7	---	---	0.080B	0.770B	16.4	2.70	0.055	0.005	0.002	0.005	---	---	7
8	---	---	0.076B	1.14 B	15.4	2.46	0.047	0.005	0.002	0.005	---	---	8
9	---	---	0.073B	1.13 B	14.9	2.28	0.043	0.004	0.002	0.005	---	---	9
10	---	---	0.076B	1.00 B	14.6	2.26	0.041	0.003	0.002	0.005	---	---	10
11	---	---	0.080B	1.05 B	14.9	2.09	0.037	0.003	0.002	0.005	---	---	11
12	---	---	0.080B	1.06 B	15.3	2.13	0.032	0.002	0.004	0.005	---	---	12
13	---	---	0.080B	1.04 B	14.7	2.11	0.034	0.002	0.004	0.005	---	---	13
14	---	---	0.084B	0.994B	13.4	2.15	0.036	0.002	0.004	0.005	---	---	14
15	---	---	0.088B	0.994B	12.6	2.35	0.032	0.001	0.004	0.005	---	---	15
16	---	---	0.091B	1.03 B	11.6	2.52	0.030	0.001	0.003	0.005	---	---	16
17	---	---	0.099B	1.15 B	11.1	2.47	0.026	0.001	0.003	0.005	---	---	17
18	---	---	0.095B	1.55 B	10.6	2.20	0.025	0.001	0.003	0.005	---	---	18
19	---	---	0.091B	4.07 B	9.22	1.79	0.023	0.001	0.003	0.004	---	---	19
20	---	---	0.088B	12.6 B	8.41	3.47	0.023	0.001	0.003	0.005	---	---	20
21	---	---	0.088B	27.6	7.65	2.82	0.022	0.001	0.003	0.005	---	---	21
22	---	0.084B	0.084B	37.6	7.43	2.52	0.018	0.001	0.003	0.005	---	---	22
23	---	0.080B	0.084B	32.9	7.57	1.92	0.015	0.004	0.003	0.005	---	---	23
24	---	0.084B	0.084B	26.7	6.90	1.35	0.014	0.004	0.003	0.005	---	---	24
25	---	0.084B	0.069B	22.5	6.41	0.993	0.010	0.003	0.003	0.005	---	---	25
26	---	0.080B	0.073B	19.9	5.73	0.745	0.009	0.002	0.003	0.005	---	---	26
27	---	0.065B	0.069B	19.3	5.47	0.590	0.009	0.002	0.003	0.005	---	---	27
28	---	0.019B	0.084B	19.0	5.08	0.468	0.006	0.002	0.003	0.005	---	---	28
29	---		0.076B	18.0	4.67	0.441	0.005	0.003	0.003	0.005	---	---	29
30	---		0.091B	17.3	4.34	0.459	0.005	0.003	0.003	0.005	---	---	30
31	---		0.103B		3.84		0.005	0.002		0.005A		---	31
TOTAL	---	---	2.449	271.557	343.92	62.366	1.710	0.122	0.083	0.153	---	---	TOTAL
MEAN	---	---	0.079	9.05	11.1	2.08	0.055	0.004	0.003	0.005	---	---	MEAN
MAX	---	---	0.103	37.6	17.3	3.47	0.352	0.017	0.004	0.006	---	---	MAX
MIN	---	---	0.003	0.111	3.84	0.441	0.005	0.001	0.002	0.003	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.79
MAXIMUM DAILY, 37.6 ON APR 22
MINIMUM DAILY, 0.001 ON AUG 15
MAXIMUM INSTANTANEOUS,
38.4 AT 17:30 MST ON APR 22

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 26 42 N
LONG 116 16 10 W
DRAINAGE AREA, 6 660 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	148
FEB	---	AUG	10.5
MAR	212	SEP	7.17
APR	23 500	OCT	13.2
MAY	29 700	NOV	---
JUN	5 390	DEC	---

TOTAL DISCHARGE, 59 000 dam³

BOYER RIVER NEAR PADDLE PRAIRIE - STATION NO. 07JF004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.004B	0.019B	0.363	0.058	0	0	0	0	---	---	1
2	---	---	0.005B	0.024B	0.843	0.058	0	0	0	0	---	---	2
3	---	---	0.006B	0.033B	1.39	0.045	0	0	0	0	---	---	3
4	---	---	0.007B	0.044B	1.50	0.065	0	0	0	0	---	---	4
5	---	---	0.008B	0.055B	1.19	0.051	0	0	0	0	---	---	5
6	---	---	0.007B	0.094B	0.884	0.045	0	0	0	0	---	---	6
7	---	---	0.006B	0.125B	0.685	0.037	0	0	0	0	---	---	7
8	---	---	0.006B	0.753B	0.506	0.031	0	0	0	0	---	---	8
9	---	---	0.006B	3.77 B	0.419	0.025	0	0	0	0	---	---	9
10	---	---	0.006B	1.71 B	0.405	0.016	0	0	0	0	---	---	10
11	---	---	0.006B	1.40 B	0.333	0.029	0	0	0	0	---	---	11
12	---	---	0.006B	1.08 B	0.352	0.051	0	0	0	0	---	---	12
13	---	---	0.007B	0.704B	0.301	0.041	0	0	0	0	---	---	13
14	---	---	0.007B	0.752B	0.303	0.035	0	0	0	0.001	---	---	14
15	---	---	0.008B	0.876B	0.278	0.028	0	0	0	0.001	---	---	15
16	---	---	0.009B	1.75 B	0.251	0.019	0	0	0	0.001	---	---	16
17	---	---	0.009B	2.74 B	0.217	0.013	0	0	0	0	---	---	17
18	---	---	0.010B	2.76	0.237	0.004	0	0	0	0	---	---	18
19	---	---	0.010B	3.68	0.206	0.001	0	0	0	0.001	---	---	19
20	---	---	0.010B	3.42	0.174	0.028	0	0	0	0.001	---	---	20
21	---	---	0.010B	2.15	0.176	0.007	0	0	0	0.001	---	---	21
22	---	---	0.010B	1.78	0.151	0.002	0	0	0	0.001	---	---	22
23	---	0.003B	0.009B	1.55	0.139	0	0	0	0	0.001	---	---	23
24	---	0.003B	0.009B	1.27	0.118	0	0	0	0	0.002	---	---	24
25	---	0.003B	0.008B	1.01	0.116	0	0	0	0	0.002	---	---	25
26	---	0.003B	0.008B	0.853	0.107	0	0	0	0	0.001	---	---	26
27	---	0.004B	0.008B	0.642	0.114	0	0	0	0	0.001	---	---	27
28	---	0.004B	0.009B	0.516	0.102	0	0	0	0	0.001	---	---	28
29	---		0.010B	0.457	0.101	0	0	0	0	0.001A	---	---	29
30	---		0.014B	0.375	0.077	0	0	0	0	0.001E	---	---	30
31	---		0.016B		0.069		0	0		0.001E		---	31
TOTAL	---	---	0.254	36.392	12.107	0.689	0	0	0	0.018	---	---	TOTAL
MEAN	---	---	0.008	1.21	0.391	0.023	0	0	0	0.001	---	---	MEAN
MAX	---	---	0.016	3.77	1.50	0.065	0	0	0	0.002	---	---	MAX
MIN	---	---	0.004	0.019	0.069	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.202
MAXIMUM DAILY, 3.77B ON APR 09
MINIMUM DAILY, 0 ON JUN 23
MAXIMUM INSTANTANEOUS,
3.98 AT 20:00 MST ON APR 19

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 54 30 N
LONG 117 36 45 W
DRAINAGE AREA, 94.3 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	21.9	SEP	0
APR	3 140	OCT	1.56
MAY	1 050	NOV	---
JUN	59.5	DEC	---

TOTAL DISCHARGE, 4 270 dam³

BRAZEAU RESERVOIR - STATION NO. 05DD006

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	962.04	957.45	953.36	950.36	950.58	958.03	959.43	961.74	964.50	965.67	965.45	963.94	1
2	961.93	957.18	953.30	950.28	950.56	958.83	959.43	961.84	964.64	965.56	965.43	963.89	2
3	961.81	956.98	953.20	950.34	950.61	959.12	959.66	961.92	964.72	965.57	965.37	963.80	3
4	961.65	956.91	953.12	950.26	950.54	959.30	959.81	962.02	964.76	965.59	965.36	963.72	4
5	961.53	956.73	953.09	950.17	950.38	959.42	959.74	962.13	964.76	965.59	965.28	963.61	5
6	961.43	956.48	952.96	950.10	950.49	959.31	959.81	962.13	964.80	965.67	965.24	963.58	6
7	961.29	956.28	952.90	950.19	950.70	959.13	961.01	962.14	964.78	965.71	965.21	963.50	7
8	961.15	956.08	952.79	950.11	950.81	958.89	961.54	962.16	964.83	965.79	965.17	963.45	8
9	961.02	955.97	952.71	950.01	950.87	958.62	961.73	962.24	964.89	965.77	965.07	963.40	9
10	960.88	955.77	952.62	949.89	950.68	958.31	961.71	962.26	964.90	965.78	965.12	963.35	10
11	960.69	955.59	952.54	949.76	950.70	958.21	961.58	962.37	964.90	965.73	965.11	963.29	11
12	960.57	955.51	952.46	949.65	950.64	958.52	961.41	962.45	964.92	965.77	965.04	963.19	12
13	960.42	955.32	952.39	949.55	950.70	959.08	961.28	962.51	964.93	965.82	964.99	963.12	13
14	960.26	955.22	952.27	949.51	950.77	959.57	961.41	962.62	964.96	965.85	964.94	963.01	14
15	960.10	955.03	952.22	949.49	950.71	959.76	961.43	962.73	965.02	965.82	964.89	962.96	15
16	959.96	954.91	951.96	949.48	950.72	959.87	961.34	962.83	965.15	965.80	964.81	962.88	16
17	959.83	954.81	951.95	949.50	950.77	960.02	961.36	962.96	965.23	965.77	964.83	962.76	17
18	959.71	954.63	951.82	949.58	950.73	960.23	961.44	963.11	965.28	965.76	964.87	962.70	18
19	959.50	954.43	951.77	949.70	950.92	960.27	961.41	963.30	965.30	965.73	964.77	962.59	19
20	959.36	954.26	951.55	949.91	951.24	960.21	961.32	963.40	965.36	965.76	964.72	962.45	20
21	959.21	954.08	951.45	950.13	951.47	960.14	961.27	963.48	965.39	965.78	964.66	962.34	21
22	959.06	953.95	951.22	950.24	951.76	960.06	961.24	963.61	965.47	965.77	964.55	962.21	22
23	958.96	953.85	951.14	950.66	951.97	960.02	961.21	963.76	965.55	965.71	964.50	962.10	23
24	958.71	953.78	951.04	950.86	952.20	960.07	961.15	963.91	965.49	965.66	964.43	961.97	24
25	958.54	953.69	950.94	951.02	952.90	960.09	961.23	964.01	965.50	965.64	964.40	961.81	25
26	958.34	953.59	950.72	951.06	954.23	960.07	961.23	964.15	965.53	965.63	964.35	961.71	26
27	958.25	953.55	950.63	950.97	954.98	959.98	961.22	964.29	965.56	965.62	964.25	961.56	27
28	958.12	953.43	950.48	950.98	955.57	959.87	961.31	964.37	965.55	965.62	964.17	961.43	28
29	958.01		950.48	950.83	955.96	959.78	961.46	964.36	965.61	965.58	964.10	961.28	29
30	957.85		950.32	950.75	956.49	959.67	961.53	964.29	965.67	965.53	964.02	961.14	30
31	957.63		950.34		957.53		961.61	964.36		965.49		961.04	31
MEAN	959.93	955.19	951.93	950.18	951.91	959.48	961.04	963.01	965.13	965.69	964.84	962.70	MEAN
MAX	962.04	957.45	953.36	951.06	957.53	960.27	961.73	964.37	965.67	965.85	965.45	963.94	MAX
MIN	957.63	953.43	950.32	949.48	950.38	958.03	959.43	961.74	964.50	965.49	964.02	961.04	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 959.28
MAXIMUM DAILY, 965.85 ON OCT 14
MINIMUM DAILY, 949.48 ON APR 16

TYPE OF GAUGE - MANUAL
LOCATION - LAT 52 58 14 N
LONG 115 34 49 W
DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
5 500 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

BRAZEAU RIVER BELOW BRAZEAU PLANT - STATION NO. 05DD005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	40.8	56.3	28.9	32.5	76.7	189	230	63.3	35.0	38.6	44.1	52.5	1
2	52.8	80.8	35.2	30.4	69.0	227	212	81.2	20.6	75.8	48.1	41.5	2
3	63.6	61.0	35.7	43.0	62.0	229	306	70.3	36.2	37.8	34.6	63.1	3
4	73.8	46.1	29.5	42.3	98.9	259	277	48.5	66.3	44.9	24.0	50.4	4
5	60.2	59.5	22.1	38.8	72.9	259	245	53.3	57.8	45.1	49.8	50.4	5
6	64.2	78.6	35.0	43.3	62.5	272	300	76.5	58.3	0.963	39.0	51.7	6
7	61.8	84.0	28.9	34.7	69.2	272	366	71.0	52.6	14.9	44.8	53.8	7
8	55.9	59.7	35.2	51.4	53.6	264	354	79.3	34.5	7.59	43.3	34.2	8
9	66.0	49.8	36.7	46.0	71.1	277	291	62.5	30.4	31.3	49.0	33.8	9
10	65.2	60.4	27.5	44.7	67.8	274	316	66.0	50.1	43.9	18.6	55.1	10
11	69.5	56.1	27.8	37.7	70.5	270	277	43.6	44.0	57.6	17.0	40.4	11
12	70.1	51.1	32.7	48.9	59.3	268	251	41.9	47.4	29.3	46.2	55.5	12
13	58.2	54.2	31.4	32.2	57.7	275	199	54.6	51.5	6.17	47.2	46.0	13
14	58.2	48.9	30.1	47.4	70.9	261	200	42.0	41.8	15.8	53.0	49.1	14
15	76.1	49.5	33.0	43.3	77.4	276	198	40.5	14.6	41.1	42.2	42.6	15
16	62.0	51.5	51.1	42.7	61.9	277	201	42.2	7.05	46.6	43.4	43.3	16
17	58.1	48.4	27.6	41.2	81.7	266	172	42.8	33.6	41.5	20.9	57.4	17
18	59.6	56.5	34.6	42.6	57.0	239	141	33.3	39.1	40.4	15.6	55.0	18
19	73.3	46.9	30.5	39.2	41.5	287	173	13.5	38.6	45.4	44.6	57.2	19
20	58.4	52.8	43.5	38.0	33.3	280	174	43.0	31.6	14.0	54.2	61.8	20
21	50.9	58.5	63.5	43.7	66.6	280	132	41.1	34.4	13.4	46.4	54.2	21
22	65.0	44.6	46.1	39.4	67.1	272	120	41.7	7.42	38.6	48.7	63.4	22
23	58.7	44.5	32.8	46.2	48.1	251	151	53.5	11.1	46.2	50.4	60.7	23
24	79.4	30.5	26.7	51.8	65.6	239	116	76.1	63.6	47.8	33.3	70.5	24
25	71.4	29.3	31.3	65.1	61.8	272	113	67.5	41.2	40.7	22.6	60.7	25
26	73.7	29.3	48.2	80.8	72.7	247	135	53.5	20.7	46.5	43.4	56.6	26
27	44.3	28.1	30.5	74.0	92.3	233	114	72.1	32.6	35.8	42.2	68.1	27
28	45.9	40.9	26.2	69.0	91.4	243	73.9	69.3	36.4	34.0	49.1	63.1	28
29	53.8		43.5	67.8	95.0	234	66.0	141	6.06	42.8	55.4	66.5	29
30	57.5		33.2	75.0	113	248	91.3	83.4	10.2	53.6	53.5	53.5	30
31	91.2		30.2		168		91.0	85.0		43.4		55.0	31
TOTAL	1 939.6	1 457.4	1 067.9	1 433.1	2 238.5	7 740	6 086.2	1 858.5	1 054.73	1 121.523	1 224.6	1 667.1	TOTAL
MEAN	62.6	52.1	34.4	47.8	72.2	258	196	60.0	35.2	36.2	40.8	53.8	MEAN
MAX	91.2	84.0	63.5	80.8	168	287	366	141	66.3	75.8	55.4	70.5	MAX
MIN	40.8	28.1	22.1	30.4	33.3	189	66.0	13.5	6.06	0.963	15.6	33.8	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 79.1
MAXIMUM DAILY, 366 ON JUL 07
MINIMUM DAILY, 0.963 ON OCT 06

DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 54 45 N
LONG 115 21 50 W
DRAINAGE AREA, 5 660 km²

REGULATED SINCE 1960

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	168 000	JUL	526 000
FEB	126 000	AUG	161 000
MAR	92 300	SEP	91 100
APR	124 000	OCT	96 900
MAY	193 000	NOV	106 000
JUN	669 000	DEC	144 000

TOTAL DISCHARGE, 2 500 000 dam³

BRAZEAU RIVER BELOW CARDINAL RIVER - STATION NO. 05DD007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	18.2E	251	133	94.9	69.3	29.3	19.6A	---	1
2	---	---	---	---	18.2A	226	122	88.4	64.1	28.6	---	---	2
3	---	---	---	---	19.8	191	126	82.6	59.0	27.6	---	---	3
4	---	---	---	---	22.1	180	122	77.7	54.6	29.9	---	---	4
5	---	---	---	---	28.6	140	114	76.1	51.6	30.9	---	---	5
6	---	---	---	---	41.6	118	231	76.4	49.3	28.3	---	---	6
7	---	---	---	---	32.2	114	340	78.3	47.6	27.4	---	---	7
8	---	---	---	---	26.7	108	237	75.3	46.8A	27.3	---	---	8
9	---	---	---	---	26.1	102	196	75.4	46.8E	28.5	---	---	9
10	---	---	---	---	24.7	102	178	74.6	46.8E	29.3	---	---	10
11	---	---	---	---	24.2	138	155	72.5	46.9E	27.4	---	---	11
12	---	---	---	---	23.5	150	142	72.9	46.9A	26.4	---	---	12
13	---	---	---	---	23.6	176	161	75.1	47.2A	25.9	---	---	13
14	---	---	---	---	24.0	141	190	76.4	47.4E	25.2	---	---	14
15	---	---	---	---	23.8	130	142	77.0	47.6E	24.8	---	---	15
16	---	---	---	---	24.4	157	141	78.1	47.8E	24.5	---	---	16
17	---	---	---	---	26.1	178	135	82.7	48.0A	24.3	---	---	17
18	---	---	---	---	30.8	186	115	80.4	46.4A	24.2	---	---	18
19	---	---	---	---	32.4	178	111	77.0	44.5E	24.1	---	---	19
20	---	---	---	---	34.0	163	99.4	71.1	42.7E	23.9	---	---	20
21	---	---	---	---	39.6	153	91.8	69.0	41.0E	23.6	---	---	21
22	---	---	---	---	37.2	170	89.7	82.5	39.4E	23.2	---	---	22
23	---	---	---	---	37.5	204	90.6	91.3	37.8E	23.0	---	---	23
24	---	---	---	---	43.4	204	97.7	88.7	36.4E	22.7	---	---	24
25	---	---	---	---	94.5	189	98.0	80.4	35.1E	23.0	---	---	25
26	---	---	---	---	139	172	95.4	86.9	34.1A	24.4	---	---	26
27	---	---	---	---	97.5	159	108	81.5	33.3	24.0	---	---	27
28	---	---	---	---	99.3	150	102	73.4	32.6	23.6	---	---	28
29	---	---	---	---	112	136	95.0	69.5	31.3	23.2	---	---	29
30	---		---	---	173	127	94.5	74.6	30.7	22.6	---	---	30
31	---		---	---	215		97.9	76.4		21.8A		---	31
TOTAL	---	---	---	---	1 614.0	4 793	4 262.0	2 437.1	1 353.0	792.9	---	---	TOTAL
MEAN	---	---	---	---	52.1	160	137	78.6	45.1	25.6	---	---	MEAN
MAX	---	---	---	---	215	251	340	94.9	69.3	30.9	---	---	MAX
MIN	---	---	---	---	18.2	102	89.7	69.0	30.7	21.8	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 82.9
MAXIMUM DAILY, 340 ON JUL 07
MINIMUM DAILY, 18.2E ON MAY 01
MAXIMUM INSTANTANEOUS,
414 AT 01:35 MST ON JUL 07

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 52 50 N
LONG 116 34 40 W
DRAINAGE AREA, 2 590 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	368 000
FEB	---	AUG	211 000
MAR	---	SEP	117 000
APR	---	OCT	68 500
MAY	139 000	NOV	---
JUN	414 000	DEC	---

TOTAL DISCHARGE, 1 320 000 dam³

BREED CREEK NEAR INTERNATIONAL BOUNDARY - STATION NO. 11AA040

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.080B	---	---	0.926	0.076	0.001	0	0	---	---	1
2	---	---	---	0.464A	---	0.758	0.065	0.001	0	0	---	---	2
3	---	---	---	0.603A	---	0.662	0.062	0.001	0	0	---	---	3
4	---	---	---	---	---	0.583	0.052	0.001	0	0	---	---	4
5	---	---	---	---	---	0.490	0.058	0	0	0	---	---	5
6	---	---	---	---	---	0.431	0.062	0	0	0	---	---	6
7	---	---	0.101A	---	---	0.391	0.056	0	0	0	---	---	7
8	---	---	---	---	---	0.338	0.055	0	0	0	---	---	8
9	---	---	---	0.280A	---	0.296	0.050	0	0	0	---	---	9
10	---	---	---	---	---	0.258	0.046	0	0	0	---	---	10
11	---	---	---	---	---	0.238	0.045	0	0	0	---	---	11
12	---	---	---	---	---	0.205	0.042	0	0	0	---	---	12
13	---	---	---	---	---	0.284	0.038	0	0	0	---	---	13
14	---	---	0.115B	---	---	0.353	0.038	0	0	0	---	---	14
15	---	---	---	---	---	0.425	0.033	0	0	0	---	---	15
16	---	---	---	---	0.320A	0.540	0.027	0	0	0	---	---	16
17	---	---	---	---	---	0.598	0.020	0	0	0	---	---	17
18	---	---	---	0.178A	---	0.508	0.015	0	0	0	---	---	18
19	---	---	0.125B	---	---	0.405	0.011	0	0	0	---	---	19
20	---	---	---	---	---	0.332	0.010	0	0	0	---	---	20
21	---	---	0.242A	---	---	0.319	0.007	0	0	0	---	---	21
22	---	---	---	---	---	0.284	0.005	0	0	0	---	---	22
23	---	---	---	---	---	0.240	0.002	0	0	0	---	---	23
24	---	---	---	0.830A	---	0.194	0.002	0	0	0	---	---	24
25	---	---	---	---	---	0.159	0.002	0.002	0	0	---	---	25
26	---	---	0.300B	---	---	0.133	0.003	0.002	0	0	---	---	26
27	---	0.094B	---	---	---	0.117	0.003	0.002	0	0	---	---	27
28	---	---	0.221A	---	---	0.104	0.002	0.001	0	0	---	---	28
29	---		0.341A	---	1.31 A	0.095	0.002	0	0	0	---	---	29
30	---		0.409A	0.327A	1.20 A	0.088	0.001	0	0	0	---	---	30
31	---		0.592A		---		0.001	0		0A		---	31
TOTAL	---	---	---	---	---	10.754	0.891	0.011	0	0	---	---	TOTAL
MEAN	---	---	---	---	---	0.359	0.029	0	0	0	---	---	MEAN
MAX	---	---	---	---	---	0.926	0.076	0.002	0	0	---	---	MAX
MIN	---	---	---	---	---	0.088	0.001	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 01 45 N
LONG 111 17 20 W

A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	77.0
FEB	---	AUG	0.950
MAR	---	SEP	0
APR	---	OCT	0
MAY	---	NOV	---
JUN	929	DEC	---

BREWSTER CREEK NEAR BANFF - STATION NO. 05BB004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.165B	9.58	7.69	2.19	0.891	0.441	---	---	1
2	---	---	---	---	0.165B	8.53	6.28	2.02	0.873	0.437	---	---	2
3	---	---	---	---	0.165B	7.81	6.54	1.86	0.867	0.436	---	---	3
4	---	---	---	---	0.165B	8.13	5.44	1.75	0.826	0.523	---	---	4
5	---	---	---	---	0.175B	6.99	5.05	1.68	0.797	0.741	---	---	5
6	---	---	---	---	0.928	6.01	6.39	1.66	0.769	0.625	---	---	6
7	---	---	---	---	0.736	5.43	7.90	1.62	0.748	0.558	---	---	7
8	---	---	---	---	0.589	4.79	7.27	1.53	0.725	0.512	---	---	8
9	---	---	---	---	0.516	4.47	6.65	1.46	0.703	0.497	---	---	9
10	---	---	---	---	0.497	6.32	6.33	1.42	0.681	0.500	---	---	10
11	---	---	---	---	0.481	8.15	5.93	1.40	0.670	0.473	---	---	11
12	---	---	---	---	0.488	6.38	6.08	1.39	0.664	0.462	---	---	12
13	---	---	---	---	0.489	5.19	6.02	1.34	0.678	0.456	---	---	13
14	---	---	---	---	0.507	4.30	5.36	1.29	0.646	0.432	---	---	14
15	---	---	---	---	0.492	4.67	4.43	1.27	0.619	0.417	---	---	15
16	---	---	---	---	0.485	5.84	4.05	1.25	0.648	0.409	---	---	16
17	---	---	---	---	0.522	6.85	3.42	1.20	0.635	0.416	---	---	17
18	---	---	---	---	0.567	7.24	2.89	1.32	0.606	0.397	---	---	18
19	---	---	---	---	0.580	6.69	2.56	1.19	0.573	0.396	---	---	19
20	---	---	---	---	0.644	6.60	2.30	1.11	0.553	0.424	---	---	20
21	---	---	---	---	0.773	7.03	2.12	1.17	0.530	0.372	---	---	21
22	---	---	---	---	0.808	7.90	2.08	1.38	0.517	0.379	---	---	22
23	---	---	---	---	1.11	10.1	2.12	1.28	0.496	0.399	---	---	23
24	---	---	---	---	1.74	10.6	2.17	1.14	0.480	0.362	---	---	24
25	---	---	---	---	5.53	10.1	3.33	1.13	0.467	0.366	---	---	25
26	---	---	---	---	8.01	9.16	4.17	1.10	0.471	0.385	---	---	26
27	---	---	---	---	6.94	8.79	3.23	1.03	0.469	0.370	---	---	27
28	---	---	---	---	6.30	7.38	2.88	0.963	0.464	0.365	---	---	28
29	---	---	---	---	6.87	6.86	2.49	0.922	0.448	0.352A	---	---	29
30	---		---	---	9.89	7.38	2.31	0.924	0.442	0.350E	---	---	30
31	---		---	---	9.22		2.29	0.916		0.350E		---	31
TOTAL	---	---	---	---	66.547	215.27	137.77	41.905	18.956	13.602	---	---	TOTAL
MEAN	---	---	---	---	2.15	7.18	4.44	1.35	0.632	0.439	---	---	MEAN
MAX	---	---	---	---	9.89	10.6	7.90	2.19	0.891	0.741	---	---	MAX
MIN	---	---	---	---	0.165	4.30	2.08	0.916	0.442	0.350	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.69
MAXIMUM DAILY, 10.6 ON JUN 24
MINIMUM DAILY, 0.165B ON MAY 01
MAXIMUM INSTANTANEOUS,
11.4 AT 07:10 MST ON JUN 24

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 05 55 N
LONG 115 39 55 W

DRAINAGE AREA, 109 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	11 900
FEB	---	AUG	3 620
MAR	---	SEP	1 640
APR	---	OCT	1 180
MAY	5 750	NOV	---
JUN	18 600	DEC	---

TOTAL DISCHARGE, 42 700 dam³

BROWN CREEK AT FORESTRY ROAD - STATION NO. 05DD004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	2.53	18.4	2.81	3.58	2.79	0.780	0.792A	---	1
2	---	---	---	---	3.29	15.9	2.85	2.91	2.39	0.752	---	---	2
3	---	---	---	---	4.10	13.5	5.61	2.73	2.14	0.699	---	---	3
4	---	---	---	---	4.70	13.4	5.03	2.26	1.96	0.778B	---	---	4
5	---	---	---	---	6.00	11.0	3.93	1.97	1.78	0.944B	---	---	5
6	---	---	---	---	6.57	9.02	13.1	1.77	1.65	0.883	---	---	6
7	---	---	---	---	5.23	7.93	27.1	1.54	1.52	0.818	---	---	7
8	---	---	---	---	4.63	7.03	20.1 A	1.42	1.43	0.827	---	---	8
9	---	---	---	---	4.63	6.18	17.0 E	1.67	1.41	0.949	---	---	9
10	---	---	---	---	4.23	5.60	15.5 E	1.50	1.30	1.24	---	---	10
11	---	---	---	---	4.03	8.44	14.0 E	1.34	1.23	1.04 B	---	---	11
12	---	---	---	---	3.94	19.0	12.2 E	1.23	1.31	0.985	---	---	12
13	---	---	---	---	3.92	27.6	11.2 E	1.29	1.58	0.896	---	---	13
14	---	---	---	---	4.35	22.0	9.70E	1.33	1.35	0.752B	---	---	14
15	---	---	---	---	4.27	16.9	9.00E	1.25	1.24	0.772B	---	---	15
16	---	---	---	---	4.45	13.6	8.00E	2.01	1.38	0.827B	---	---	16
17	---	---	---	---	4.74	11.5	7.20E	2.87	1.98	0.841B	---	---	17
18	---	---	---	---	5.38	9.36	6.60E	2.75	1.56	0.938B	---	---	18
19	---	---	---	---	5.86	8.00	6.00E	2.04	1.33	0.694B	---	---	19
20	---	---	---	---	5.82	7.25	5.40E	1.69	1.22	0.662B	---	---	20
21	---	---	---	---	6.98	6.45	5.00E	1.46	1.15	0.852B	---	---	21
22	---	---	---	---	6.90	5.73	4.40E	1.66	1.06	0.891B	---	---	22
23	---	---	---	---	6.54	5.15	4.00E	3.52	1.03	0.720B	---	---	23
24	---	---	---	---	7.46	4.58	3.50E	2.25	0.959	0.748B	---	---	24
25	---	---	---	3.97A	17.6	4.22	3.33A	2.68	0.908	0.858B	---	---	25
26	---	---	---	3.61	18.5	3.74	2.55	4.72	0.861	1.13 B	---	---	26
27	---	---	---	2.80	13.3	3.47	2.20	4.29	0.847	1.03 B	---	---	27
28	---	---	---	2.28	10.9	3.46	2.06	3.34	0.839	0.986B	---	---	28
29	---	---	---	2.03	9.55	3.44	1.98	2.75	0.817	0.847B	---	---	29
30	---	---	---	2.05	13.0	2.99	1.80	3.51	0.794	0.761B	---	---	30
31	---		---		17.2		4.37	3.31		0.766B		---	31
TOTAL	---	---	---	---	220.60	294.84	237.72	73.64	41.815	26.666	---	---	TOTAL
MEAN	---	---	---	---	7.12	9.83	7.67	2.38	1.39	0.860	---	---	MEAN
MAX	---	---	---	---	18.5	27.6	27.1	4.72	2.79	1.24	---	---	MAX
MIN	---	---	---	---	2.53	2.99	1.80	1.23	0.794	0.662	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.87
MAXIMUM DAILY, 27.6 ON JUN 13
MINIMUM DAILY, 0.662B ON OCT 20
MAXIMUM INSTANTANEOUS,
35.5 AT 02:55 MST ON JUL 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 45 40 N
LONG 116 21 20 W
DRAINAGE AREA, 218 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	20 500
FEB	---	AUG	6 360
MAR	---	SEP	3 610
APR	---	OCT	2 300
MAY	19 100	NOV	---
JUN	25 500	DEC	---

TOTAL DISCHARGE, 77 400 dam³

BUCHANAN CREEK NEAR MANNING - STATION NO. 07HC002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	5.54 B	1.83	0.280	0.123	0.004	0	0	---	---	1
2	---	---	0 B	4.46 B	2.71	0.243	0.883	0.003	0	0	---	---	2
3	---	---	0 B	4.72 B	3.38	0.213	1.01	0.003	0	0	---	---	3
4	---	---	0 B	4.83 B	3.42	0.186	0.675	0.003	0	0	---	---	4
5	---	---	0 B	5.63	2.92	0.159	0.426	0.003	0	0	---	---	5
6	---	---	0 B	5.17	2.12	0.127	0.235	0.002	0	0	---	---	6
7	---	---	0 B	3.28	1.74	0.105	0.151	0.002	0	0	---	---	7
8	---	---	0 B	2.13	1.79	0.085	0.117	0.002	0	0	---	---	8
9	---	---	0 B	2.07	1.83	0.127	0.077	0.001	0	0	---	---	9
10	---	---	0 B	1.60	1.59	0.255	0.055	0.002	0	0	---	---	10
11	---	---	0 B	0.872	1.34	0.350	0.057	0.001	0	0	---	---	11
12	---	---	0 B	0.930	1.10	4.48	0.091	0.001	0	0	---	---	12
13	---	---	0 B	0.891	1.04	35.3	0.036	0.001	0	0	---	---	13
14	---	---	0 B	0.972	0.896	31.4	0.022	0.001	0	0	---	---	14
15	---	---	0 B	1.17	0.723	14.7	0.018	0.001	0	0	---	---	15
16	---	---	0.003B	1.41	0.610	8.06	0.015	0.001	0	0	---	---	16
17	---	---	0.013B	1.54	0.684	4.58	0.015	0.001	0	0	---	---	17
18	---	---	0.025B	1.96	0.520	2.63	0.015	0.001	0	0	---	---	18
19	---	---	0.034B	2.54	0.431	1.56	0.014	0.001	0	0B	---	---	19
20	---	---	0.104B	2.67	0.368	0.995	0.012	0	0	0B	---	---	20
21	---	---	0.264B	2.46	0.321	0.606	0.010	0	0	0B	---	---	21
22	---	---	0.178B	2.33	0.318	0.286	0.009	0	0	0B	---	---	22
23	---	---	0.101B	2.60	0.262	0.152	0.009	0	0	0B	---	---	23
24	---	---	0.061B	2.17	0.233	0.080	0.010	0	0	0B	---	---	24
25	---	---	0.019B	2.09	0.272	0.046	0.011	0	0	0B	---	---	25
26	---	---	0.005B	2.14	0.346	0.034	0.006	0	0	0B	---	---	26
27	---	---	0 B	1.90	0.554	0.021	0.006	0	0	0B	---	---	27
28	---	---	0.004B	1.65	0.624	0.027	0.006	0	0	0B	---	---	28
29	---	---	0.224B	1.46	0.394	0.046	0.005	0	0	0B	---	---	29
30	---		6.53 B	1.49	0.580	0.050	0.004	0	0	0B	---	---	30
31	---		7.44 B		0.370		0.004	0		0B		---	31
TOTAL	---	---	15.005	74.675	35.316	107.183	4.125	0.034	0	0	---	---	TOTAL
MEAN	---	---	0.484	2.49	1.14	3.57	0.133	0.001	0	0	---	---	MEAN
MAX	---	---	7.44	5.63	3.42	35.3	1.01	0.004	0	0	---	---	MAX
MIN	---	---	0	0.872	0.233	0.021	0.004	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.965
MAXIMUM DAILY, 35.3 ON JUN 13
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
47.0 AT 20:30 MST ON JUN 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 53 42 N
LONG 117 29 16 W
DRAINAGE AREA, 232 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	356
FEB	---	AUG	2 94
MAR	1 300	SEP	0
APR	6 450	OCT	0
MAY	3 050	NOV	---
JUN	9 260	DEC	---

TOTAL DISCHARGE, 20 400 dam³

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARK.

BUFFALO CREEK AT HIGHWAY NO. 41 - STATION NO. 05FE002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.010B	3.79	0.277	0.098	0.015	0.015	0.011	0	---	---	1
2	---	---	0.030B	3.69	0.264	0.294	0.014	0.015	0.012	0	---	---	2
3	---	---	0.050B	2.91	0.261	0.337	0.168A	0.014	0.016	0	---	---	3
4	---	---	0.065B	2.28	0.242	0.314	0.556	0.014	0.013	0	---	---	4
5	---	---	0.075B	1.79	0.213	0.399	0.654	0.014	0.013	0	---	---	5
6	---	---	0.080B	1.40	0.182	0.439	0.758	0.025A	0.016	0.004	---	---	6
7	---	---	0.077B	1.15	0.170	0.433	0.737	0.022	0.016	0.009	---	---	7
8	---	---	0.065B	0.986	0.182	0.354	0.468	0.025	0.015	0.006	---	---	8
9	---	---	0.083B	0.842	0.188	0.311	0.322	0.028	0.013	0.005	---	---	9
10	---	---	0.103B	0.653	0.167	0.325	0.312	0.031	0.012	0.013	---	---	10
11	---	---	0.100B	0.550B	0.124	0.302	0.274	0.030	0.012	0.015	---	---	11
12	---	---	0.096B	0.550	0.112	0.328	0.224	0.026	0.013	0.020	---	---	12
13	---	---	0.078B	0.506	0.106	0.408	0.165	0.031	0.007	0.020	---	---	13
14	---	---	0.063B	0.512	0.108	0.462	0.118	0.037	0.013	0.044	---	---	14
15	---	---	0.058B	0.491	0.533	0.460	0.075	0.042	0.011	0.205	---	---	15
16	---	---	0.068B	0.468	0.435	0.408	0.060	0.025A	0.015	0.090	---	---	16
17	---	---	0.060B	0.392	0.278	0.288	0.061	0.017A	0.014	0.071	---	---	17
18	---	---	0.052B	0.389	0.242	0.206	0.044	0.032	0.004	0.059	---	---	18
19	---	---	0.098B	0.387	0.294	0.155	0.047	0.044	0	0.043	---	---	19
20	---	---	0.259B	0.395	0.257	0.103	0.044	0.055	0	0.039	---	---	20
21	---	0 B	0.233B	0.412	0.220	0.064	0.039	0.052	0	0.039	---	---	21
22	---	0 B	0.183B	0.366	0.220	0.039	0.039	0.056	0	0.038	---	---	22
23	---	0 B	0.123B	0.332	0.183	0.021	0.028	0.047	0	0.042	---	---	23
24	---	0 B	0.085B	0.403	0.158	0.019	0.023	0.021	0	0.043	---	---	24
25	---	0 B	0.085B	0.387	0.149	0.017	0.021	0.011	0	0.044	---	---	25
26	---	0 B	0.100B	0.338	0.125	0.023	0.019	0.010	0	0.045	---	---	26
27	---	0 B	0.250B	0.315	0.109	0.018	0.017	0.013	0	0.086	---	---	27
28	---	0.002B	1.04 B	0.278	0.099	0.016	0.017	0.007	0	0.078	---	---	28
29	---		2.52 B	0.298	0.100	0.016	0.016	0.009	0	0.048A	---	---	29
30	---		3.98 B	0.301	0.099	0.015	0.016	0.005	0	0.045E	---	---	30
31	---		3.60 B		0.097		0.015	0.007		0.042E		---	31
TOTAL	---	---	13.769	27.561	6.194	6.672	5.366	0.780	0.226	1.193	---	---	TOTAL
MEAN	---	---	0.444	0.919	0.200	0.222	0.173	0.025	0.008	0.039	---	---	MEAN
MAX	---	---	3.98	3.79	0.533	0.462	0.758	0.056	0.016	0.205	---	---	MAX
MIN	---	---	0.010	0.278	0.097	0.015	0.014	0.005	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.252
MAXIMUM DAILY, 3.98B ON MAR 30
MINIMUM DAILY, 0 ON SEP 19
MAXIMUM INSTANTANEOUS
5.26B AT 17:30 MST ON MAR 30

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 00 26 N
LONG 110 51 57 W
DRAINAGE AREA, 714 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	464
FEB	---	AUG	67.4
MAR	1 190	SEP	19.5
APR	2 380	OCT	103
MAY	535	NOV	---
JUN	576	DEC	---

TOTAL DISCHARGE, 5 330 dam³

BUFFALO LAKE NEAR ERSKINE - STATION NO. 05CD005

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	780.221	---	---	780.328	780.245	780.162	---	---	1
2	---	---	---	---	---	---	780.285	---	780.240	---	780.101	---	2
3	---	---	---	---	---	---	---	780.323	780.238	780.155	---	---	3
4	---	---	---	---	780.236	780.257	780.354	---	---	---	---	---	4
5	---	---	---	---	---	780.278	780.333	780.321	780.234	780.148	---	---	5
6	---	---	---	---	780.231	---	780.352	780.321	---	---	---	---	6
7	---	---	---	---	780.194	780.295	780.362	---	780.232	---	---	---	7
8	---	---	---	---	---	---	780.361	---	780.235	780.137	---	---	8
9	---	---	---	---	780.195	---	---	780.311	780.225	---	---	---	9
10	---	---	---	---	---	---	780.360	---	---	780.139	---	---	10
11	---	---	---	780.085	780.196	780.288	780.359	780.310	780.214	---	---	---	11
12	---	---	---	---	---	780.339	780.353	780.299	---	---	---	---	12
13	---	---	---	---	780.208	---	780.352	---	780.206	780.143	---	---	13
14	---	---	780.101	---	---	780.321	---	780.290	780.205	---	---	---	14
15	---	---	---	---	---	---	---	---	---	---	---	---	15
16	---	---	---	---	780.205	780.317	780.356	780.288	---	---	---	---	16
17	---	---	---	---	---	780.324	780.358	---	780.194	---	---	---	17
18	---	---	---	---	780.207	780.323	---	780.284	780.187	780.121	---	---	18
19	---	---	---	---	---	---	780.345	---	---	780.117	---	---	19
20	---	---	---	---	780.212	780.316	---	780.281	780.177	---	---	---	20
21	---	---	---	---	---	---	780.347	780.279	---	---	---	---	21
22	---	779.889	---	---	780.210	---	---	---	780.177	780.115	---	---	22
23	---	---	---	---	780.212	---	780.346	---	---	780.112	---	---	23
24	---	---	---	---	---	---	---	780.261	780.175	---	---	---	24
25	---	---	---	---	---	780.309	---	---	780.169	780.111	---	---	25
26	---	---	---	---	---	---	780.340	780.261	---	---	---	---	26
27	---	---	---	---	---	780.308	---	---	780.164	780.107	---	---	27
28	---	---	---	---	780.216	---	---	780.260	---	780.105	---	---	28
29	---		---	---	780.214	780.301	780.339	780.259	780.164	780.101	---	---	29
30	---		---	---	---	---	---	780.253	---	780.103	---	---	30
31	---		---		780.226		780.325	---		780.101		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 52 27 53 N
LONG 112 52 57 W

A - MANUAL GAUGE
E - ESTIMATED

DRAINAGE AREA, 1 570 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

BULLPOUND CREEK NEAR THE MOUTH - STATION NO. 05CG003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	OB	OB	0	0	0	0	0.005	0	---	---	1
2	---	---	OB	OB	0	0	0	0.003	0.005	0	---	---	2
3	---	---	OB	OB	0	0	0	0.077	0.005	0	---	---	3
4	---	---	OB	OB	0	0	0	0.093	0.004	0	---	---	4
5	---	---	OB	OB	0	0	0	0.101	0.004	0	---	---	5
6	---	---	OB	OB	0	0	0	0.110	0.004	0	---	---	6
7	---	---	OB	OB	0	0	0	0.107	0.004	0	---	---	7
8	---	---	OB	OB	0	0	0	0.103	0.003	0	---	---	8
9	---	---	OB	OB	0	0	0	0.102	0.003	0	---	---	9
10	---	---	OB	OB	0	0	0	0.094	0.003	0	---	---	10
11	---	---	OB	OB	0	0	0	0.092	0.003	0	---	---	11
12	---	---	OB	OB	0	0	0	0.096	0.003	0	---	---	12
13	---	---	OB	OB	0	0	0	0.045	0.003	0	---	---	13
14	---	---	OB	OB	0	0	0	0.012	0.002	0	---	---	14
15	---	---	OB	OB	0	0	0	0.008	0.002	0	---	---	15
16	---	---	OB	OB	0	0	0	0.008	0.002	0	---	---	16
17	---	---	OB	OB	0	0	0	0.158	0.002	0	---	---	17
18	---	---	OB	OB	0	0	0	0.311	0.001	0	---	---	18
19	---	---	OB	OB	0	0	0	0.205	0.001	0	---	---	19
20	---	---	OB	OB	0	0	0	0.162	0.001	0	---	---	20
21	---	---	OB	OB	0	0	0	0.126	0.001	0	---	---	21
22	---	---	OB	OB	0	0	0	0.045	0.001	0	---	---	22
23	---	---	OB	0	0	0	0	0.016	0.001	0	---	---	23
24	---	---	OB	0	0	0	0	0.009	0	0	---	---	24
25	---	---	OB	0	0	0	0	0.008	0	0	---	---	25
26	---	---	OB	0	0	0	0	0.007	0	0	---	---	26
27	---	---	OB	0	0	0	0	0.007	0	0	---	---	27
28	---	OB	OB	0	0	0	0	0.006	0	0	---	---	28
29	---		OB	0	0	0	0	0.006	0	OA	---	---	29
30	---		OB	0	0	0	0	0.006	0	OE	---	---	30
31	---		OB		0		0	0.005		OE		---	31
TOTAL	---	---	0	0	0	0	0	2.128	0.063	0	---	---	TOTAL
MEAN	---	---	0	0	0	0	0	0.069	0.002	0	---	---	MEAN
MAX	---	---	0	0	0	0	0	0.311	0.005	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.009
MAXIMUM DAILY, 0.311 ON AUG 18
MINIMUM DAILY, OB ON MAR 01
MAXIMUM INSTANTANEOUS,
0.451 AT 19:11 MST ON AUG 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 05 54 N
LONG 111 55 54 W
DRAINAGE AREA, 1 470 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	184
MAR	0	SEP	5.44
APR	0	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 189 dam³

BULLPOUND CREEK NEAR WATTS - STATION NO. 05CG004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0	0.038	0	0	0	0	0	0	---	---	1
2	---	---	0	0.040	0	0	0	0	0	0	---	---	2
3	---	---	0	0.041	0	0	0	0	0	0	---	---	3
4	---	---	0	0.039	0	0	0	0	0	0	---	---	4
5	---	---	0	0.036	0	0	0	0	0	0	---	---	5
6	---	---	0	0.033	0	0	0	0	0	0	---	---	6
7	---	---	0	0.031	0	0	0	0	0	0	---	---	7
8	---	---	0.002	0.030	0	0	0	0	0	0	---	---	8
9	---	---	0.002	0.030	0	0	0	0	0	0	---	---	9
10	---	---	0.002	0.029B	0	0	0	0	0	0	---	---	10
11	---	---	0.002	0.028B	0	0	0	0	0	0	---	---	11
12	---	---	0.001	0.030	0	0	0	0	0	0	---	---	12
13	---	---	0.001	0.027	0	0	0	0	0	0	---	---	13
14	---	---	0.002	0.024	0	0	0	0	0	0	---	---	14
15	---	---	0.003	0.020	0	0	0	0	0	0	---	---	15
16	---	---	0.012	0.017	0	0	0	0	0	0	---	---	16
17	---	---	0.029	0.013	0	0	0	0	0	0	---	---	17
18	---	---	0.025	0.009	0	0	0	0	0	0	---	---	18
19	---	---	0.046	0.006	0	0	0	0	0	0	---	---	19
20	---	---	0.069	0.004	0	0	0	0	0	0	---	---	20
21	---	---	0.053	0.002	0	0	0	0	0	0	---	---	21
22	---	OA	0.045	0.001	0	0	0	0	0	0	---	---	22
23	---	0	0.050	0	0	0	0	0	0	0	---	---	23
24	---	0	0.063	0	0	0	0	0	0	0	---	---	24
25	---	0	0.077	0	0	0	0	0	0	0	---	---	25
26	---	0	0.059	0	0	0	0	0	0	0	---	---	26
27	---	0	0.050	0	0	0	0	0	0	0	---	---	27
28	---	0	0.047	0	0	0	0	0	0	0	---	---	28
29	---		0.046	0	0	0	0	0	0	0	---	---	29
30	---		0.043	0	0	0	0	0	0	OA	---	---	30
31	---		0.038		0		0	0		OE		---	31
TOTAL	---	---	0.767	0.528	0	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.025	0.018	0	0	0	0	0	0	---	---	MEAN
MAX	---	---	0.077	0.041	0	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.005
MAXIMUM DAILY, 0.077 ON MAR 25
MINIMUM DAILY, 0 ON MAR 01
MAXIMUM INSTANTANEOUS,
0.091 AT 06:27 MST ON MAR 25

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 39 43 N
LONG 112 05 00 W
DRAINAGE AREA, 197 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	66.3	SEP	0
APR	45.6	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 112 dam³

CADOTTE RIVER AT OUTLET CADOTTE LAKE - STATION NO. 07HB001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.290E	0.614	4.16	1.44	1.91	0.016	0.004	0.002	---	---	1
2	---	---	0.300E	0.716	4.31	1.66	1.79	0.013	0.004	0.002	---	---	2
3	---	---	0.310E	0.888	4.76	1.70	1.61	0.012	0.004	0.002	---	---	3
4	---	---	0.320E	0.983	5.28	1.60	1.64	0.013	0.003	0.002	---	---	4
5	---	---	0.328A	1.01	6.23	1.58	1.52	0.011	0.004	0.002	---	---	5
6	---	---	0.316	1.06	6.08	1.56	1.28	0.008	0.004	0.002	---	---	6
7	---	---	0.291	1.11	6.66	1.47	1.17	0.006	0.003	0.002	---	---	7
8	---	---	0.275	1.18	7.95	1.42	1.08	0.006	0.003	0.002	---	---	8
9	---	---	0.290	1.14	7.70	1.48	0.858	0.006	0.003	0.002	---	---	9
10	---	---	0.290	1.09	7.97	1.41	0.732	0.006	0.003	0.002	---	---	10
11	---	---	0.273	1.03	7.93	1.65	0.596	0.005	0.004	0.003	---	---	11
12	---	---	0.274	1.02	7.31	7.35	0.477	0.006	0.002	0.003	---	---	12
13	---	---	0.260	1.01	7.12	17.4	0.288	0.005	0.003	0.002	---	---	13
14	---	---	0.260	0.964	6.23	19.7	0.169	0.005E	0.003	0.002	---	---	14
15	---	---	0.257	1.00	6.22	18.5	0.255	0.005E	0.004	0.003	---	---	15
16	---	---	0.250	1.02	5.89	16.8	0.289	0.005E	0.003	0.003	---	---	16
17	---	---	0.248	1.12	5.58	14.7	0.171	0.004E	0.003	0.003	---	---	17
18	---	---	0.251	1.23	4.79	12.5	0.125	0.004E	0.004	0.003	---	---	18
19	---	---	0.259	1.48	4.70	10.6	0.167	0.004E	0.003	0.002	---	---	19
20	---	---	0.495	1.88	4.43	9.01	0.111	0.003E	0.004	0.003	---	---	20
21	---	---	0.503	2.31	4.06	7.56	0.107	0.003E	0.004	0.003	---	---	21
22	---	---	0.471	2.60	4.53	6.43	0.115	0.003A	0.004	0.003	---	---	22
23	---	---	0.437	2.80	3.67	4.25	0.038	0.003	0.003	0.003	---	---	23
24	---	---	0.391	2.91	3.49	3.54	0.040	0.004	0.002	0.003	---	---	24
25	---	---	0.346	3.29	3.60	2.71	0.063	0.003	0.002	0.003	---	---	25
26	---	---	0.335	3.81	3.11	2.35	0.032	0.004	0.002	0.003	---	---	26
27	---	---	0.317	3.93	2.95	2.00	0.024	0.004	0.002	0.003	---	---	27
28	---	---	0.333	3.78	2.85	1.66	0.024	0.003	0.003	0.003	---	---	28
29	---	---	0.418	3.78	2.00	1.61	0.024	0.003	0.002	0.003A	---	---	29
30	---		0.504	3.76	1.62	1.54	0.023	0.003	0.002	0.003E	---	---	30
31	---		0.566		1.52		0.020	0.004		0.003E		---	31
TOTAL	---	---	10.558	54.515	154.70	177.18	16.748	0.180	0.094	0.080	---	---	TOTAL
MEAN	---	---	0.341	1.82	4.99	5.91	0.540	0.006	0.003	0.003	---	---	MEAN
MAX	---	---	0.566	3.93	7.97	19.7	1.91	0.016	0.004	0.003	---	---	MAX
MIN	---	---	0.248	0.614	1.52	1.41	0.020	0.003	0.002	0.002	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.69
MAXIMUM DAILY, 19.7 ON JUN 14
MINIMUM DAILY, 0.002 ON SEP 12
MAXIMUM INSTANTANEOUS,
20.7 AT 12:00 MST ON JUN 14

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 29 12 N
LONG 116 25 58 W
DRAINAGE AREA, 881 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	1 450
FEB	---	AUG	15.6
MAR	912	SEP	8.12
APR	4 710	OCT	6.91
MAY	13 400	NOV	---
JUN	15 300	DEC	---

TOTAL DISCHARGE, 35 800 dam³

CALLING LAKE AT RANGER STATION - STATION NO. 07CB001

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	594.037	594.147	594.137	594.088	593.958	593.808	---	---	1
2	---	---	---	---	594.036	594.137	594.127	594.088	593.958	593.798	---	---	2
3	---	---	---	---	594.047	594.147	594.137	594.068	593.938	593.800	---	---	3
4	---	---	---	---	594.047	594.127	594.157	594.068	593.938	593.798	---	---	4
5	---	---	---	---	594.047	594.137	594.147	594.058	593.928	593.798	---	---	5
6	---	---	---	---	594.067	594.127	594.137	594.048	593.918	593.788	---	---	6
7	---	---	---	---	594.067	594.137	594.147	594.048	593.908	593.788	---	---	7
8	---	---	---	---	594.077	594.137	594.157	594.038	593.898	593.789	---	---	8
9	---	---	---	---	594.107	594.127	594.157	594.033	593.918	593.788	---	---	9
10	---	---	---	---	594.087	594.127	594.127	594.018	593.888	593.788	---	---	10
11	---	---	---	---	594.087	594.167	594.137	594.018	593.908	593.788	---	---	11
12	---	---	---	---	594.087	594.147	594.137	594.018	593.918	593.778	---	---	12
13	---	---	---	---	594.097	594.167	594.157	594.028	593.908	593.778	---	---	13
14	---	---	---	---	594.097	594.147	594.157	594.008	593.898	593.778	---	---	14
15	---	---	---	---	594.097	594.147	594.127	593.998	593.898	593.778	---	---	15
16	---	---	---	---	594.107	594.147	594.117	593.988	593.888	593.778	---	---	16
17	---	---	---	---	594.107	594.147	594.117	593.988	593.888	593.778	---	---	17
18	---	---	---	---	594.117	594.147	594.117	593.998	593.878	593.768	---	---	18
19	---	---	---	---	594.107	594.137	594.117	593.998	593.878	593.768	---	---	19
20	---	---	---	---	594.107	594.147E	594.117	593.998	593.878	593.768	---	---	20
21	---	---	---	---	594.127	594.157	594.107	593.988	593.868	593.768	---	---	21
22	---	---	---	---	594.117	594.157	594.097	593.988	593.848	593.778	---	---	22
23	---	---	---	---	594.127	594.157	594.097	593.988	593.858	593.758	---	---	23
24	---	---	---	---	594.127	594.157	594.107	593.978	593.848	593.758	---	---	24
25	---	---	---	---	594.137	594.147	594.097	593.988	593.838	593.758	---	---	25
26	---	593.640	---	---	594.127	594.147	594.097	593.988	593.838	593.758	---	---	26
27	---	---	---	---	594.137	594.147	594.097	593.958	593.838	593.748	---	---	27
28	---	---	---	---	594.137	594.140	594.107	593.978	593.828	593.748	---	---	28
29	---		---	---	594.135	594.147	594.097	593.978	593.808	593.758	---	---	29
30	---		---	---	594.137	594.137	594.087	593.958	593.808	593.758	---	---	30
31	---		---		594.137		594.077	593.958		593.758		---	31
MEAN	---	---	---	---	594.099	594.145	594.122	594.011	593.886	593.776	---	---	MEAN
MAX	---	---	---	---	594.137	594.167	594.157	594.088	593.958	593.808	---	---	MAX
MIN	---	---	---	---	594.036	594.127	594.077	593.958	593.808	593.748	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 594.167 ON JUN 11

TYPE OF GAUGE - MANUAL
LOCATION - LAT 55 13 35 N
LONG 113 12 05 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA,
1 220 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

CANADIAN ST. MARY CANAL ABOVE RAYMOND CHUTE - STATION NO. 05AF032

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0	3.20	25.3	84.7	67.4	38.6	65.5	OA	---	1
2	---	---	---	0	3.23	25.6	84.7	65.1	38.6	65.4	---	---	2
3	---	---	---	0	8.40	25.3	84.5	63.1	38.6	65.5	---	---	3
4	---	---	---	0	16.7	25.2	84.4	60.0	38.5	60.3	---	---	4
5	---	---	---	0	20.2 A	25.4	84.3	59.8	41.0	49.8	---	---	5
6	---	---	---	0	20.2 A	25.1	84.1	59.8	43.7	38.2	---	---	6
7	---	---	---	0	20.5 A	24.9	84.1	59.8	43.7	29.4	---	---	7
8	---	---	---	0	20.6 A	25.2	84.0	59.7	43.6	25.9	---	---	8
9	---	---	---	0	20.4 A	25.1	83.8	59.6	43.6	24.6	---	---	9
10	---	---	---	0	20.4 A	25.0	83.8	59.6	45.3	10.7	---	---	10
11	---	---	---	0	20.4 A	26.6	83.7	59.6	50.9	1.84	---	---	11
12	---	---	---	0	20.5 A	35.5	83.5	59.6	51.0	0.816	---	---	12
13	---	---	---	0	20.6 A	39.6	83.4	59.7	52.6	0.302	---	---	13
14	---	---	---	0	20.5 A	35.4	83.4	59.7	57.2	0.021	---	---	14
15	---	---	---	0	20.6 A	30.7	83.5	59.6	57.4	0	---	---	15
16	---	---	---	0	21.9 A	30.6	83.3	59.7	57.4	0	---	---	16
17	---	---	---	0	26.5 A	30.7	83.4	59.8	57.6	0 A	---	---	17
18	---	---	---	0	32.2	30.7	83.4	59.8	57.7	0 E	---	---	18
19	---	---	---	0	32.5	30.6	83.3	58.5	57.7	0 E	---	---	19
20	---	---	---	0	32.4	31.9	83.2	50.7	57.6	0 E	---	---	20
21	---	---	---	0	32.4	41.5	83.2	49.9	57.6	0 E	---	---	21
22	---	---	---	0	32.4	55.9	83.3	49.9	57.6	0 E	---	---	22
23	---	---	---	0	32.6	60.6	83.1	50.1	57.4	0 E	---	---	23
24	---	---	---	0	32.5	60.5	83.0	48.6	57.6	0 E	---	---	24
25	---	---	---	0	32.9	61.8	83.1	44.4	57.4	0 E	---	---	25
26	---	---	---	0	33.0	72.7	81.5	44.1	57.4	0 E	---	---	26
27	---	---	OA	0.074	33.0	84.6	77.8	44.0	57.3	0 E	---	---	27
28	---	---	0	1.53	33.1	84.9	78.0	44.0	59.9	0 E	---	---	28
29	---	---	0	2.99	29.7	84.9	78.3	44.1	65.4	0 E	---	---	29
30	---	---	0	3.34	25.5	84.7	74.1	42.6	65.7	0 E	---	---	30
31	---		0		25.3		69.9	38.8		0 E		---	31
TOTAL	---	---	---	7.934	745.93	1 266.4	2 551.8	1 701.1	1 565.6	438.279	---	---	TOTAL
MEAN	---	---	---	0.265	24.1	42.2	82.3	54.9	52.2	14.1	---	---	MEAN
MAX	---	---	---	3.34	33.1	84.9	84.7	67.4	65.7	65.5	---	---	MAX
MIN	---	---	---	0	3.20	24.9	69.9	38.8	38.5	0	---	---	MIN

SUMMARY FOR THE MONTHS APR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 38.7
MAXIMUM DAILY, 84.9 ON JUN 28
MINIMUM DAILY, 0 ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 24 18 N
LONG 112 37 07 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	220 000
FEB	---	AUG	147 000
MAR	---	SEP	135 000
APR	685	OCT	37 900
MAY	64 400	NOV	---
JUN	109 000	DEC	---

TOTAL DISCHARGE, 714 000 dam³

REMARKS - REPLACES STATION 05AF028 CANADIAN ST. MARY CANAL AT DROP NO. 1

CANADIAN ST. MARY CANAL NEAR SPRING COULEE - STATION NO. 05AE026

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0	14.6	26.7	87.1	68.7	40.7	68.1	OE	---	1
2	---	---	---	0	14.6	20.1	87.0	67.4	40.6	69.1	OE	---	2
3	---	---	---	0	14.6	20.2	86.1	65.8	40.6	64.0	OE	---	3
4	---	---	---	0	15.8	22.1	85.8	63.0	40.3	45.5	OE	---	4
5	---	---	---	0	18.9	24.7	85.8	63.3	40.0	33.4	OE	---	5
6	---	---	---	0	18.8	24.8	85.3	63.4	39.8	27.5	OE	---	6
7	---	---	---	0	18.8	24.7	85.2	62.2	39.8	27.5	OE	---	7
8	---	---	---	0	21.4	25.2	85.8	59.8	39.8	27.6	OE	---	8
9	---	---	---	0	23.3	27.7	85.6	59.8	39.8	25.5	OE	---	9
10	---	---	---	0	23.2	27.7	86.0	59.9	44.1	12.1	OE	---	10
11	---	---	---	0	23.3	30.6	86.2A	60.0	50.2	0.060	OE	---	11
12	---	---	---	0	23.2	37.7	86.1	60.0	51.0	0	OE	---	12
13	---	---	---	0	23.3	41.3	85.7	60.0	54.0	0	OE	---	13
14	---	---	---	0	23.2	39.1	85.7	60.1	59.8	0.025	OE	---	14
15	---	---	---	0	25.9	34.1	85.9	60.0	60.0	0.166	OE	---	15
16	---	---	---	0	30.8	33.9	85.6	59.8	59.7	0.021	OE	---	16
17	---	---	---	0	33.9	33.9	85.5	59.9	59.6	0.021	OE	---	17
18	---	---	---	0	36.3	33.8	85.6	60.0	59.0	0.012	OE	---	18
19	---	---	---	0	36.4	33.8	85.4	58.3	58.7	0.007	OE	---	19
20	---	---	---	3.51	36.4	35.7	85.4	50.9	58.5	0.003	OE	---	20
21	---	---	---	8.44	36.2	42.6	85.7	51.0	58.3	0.001	OE	---	21
22	---	---	---	8.45	36.3	54.1	85.5	50.9	58.2	0	OE	---	22
23	---	---	---	8.46	36.3	61.3	85.2	51.0	57.9	0	OE	---	23
24	---	---	---	8.47	36.6	62.5	85.3	49.6	57.7	0	OE	---	24
25	---	---	---	8.49	36.7	73.6	84.9	48.1	57.4	0	OE	---	25
26	---	---	---	8.53	36.9	84.7	83.9	48.2	58.4	0	OE	---	26
27	---	---	OA	14.3	37.0	84.6	86.8	48.0	60.0	0	OE	---	27
28	---	---	0	14.7	34.2	85.4	87.1	48.0	63.8	0	OE	---	28
29	---	---	0	14.6	28.1	86.9	87.3	48.1	67.8	0	OE	---	29
30	---		0	14.6	25.3	86.8	87.1	44.7	67.7	0 A	OE	---	30
31	---		0		23.0		79.0	40.7		0 E		---	31
TOTAL	---	---	---	112.55	843.3	1 324.3	2 654.6	1 750.6	1 583.2	400.616	0	---	TOTAL
MEAN	---	---	---	3.75	27.2	44.1	85.6	56.5	52.8	12.9	0	---	MEAN
MAX	---	---	---	14.7	37.0	86.9	87.3	68.7	67.8	69.1	0	---	MAX
MIN	---	---	---	0	14.6	20.1	79.0	40.7	39.8	0	0	---	MIN

SUMMARY FOR THE MONTHS APR TO NOV

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 35.5
MAXIMUM DAILY, 87.3 ON JUL 29
MINIMUM DAILY, 0 ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 20 39 N
LONG 113 02 35 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	229 000
FEB	---	AUG	151 000
MAR	---	SEP	137 000
APR	9 720	OCT	34 600
MAY	72 900	NOV	0
JUN	114 000	DEC	---

TOTAL DISCHARGE, 748 000 dam³

CARDINAL RIVER NEAR THE MOUTH - STATION NO. 05DD008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	3.75E	75.9	---	---	---	---	---	---	1
2	---	---	---	---	3.75A	66.6	---	---	---	---	---	---	2
3	---	---	---	---	3.98E	40.9	---	---	---	---	---	---	3
4	---	---	---	---	4.21E	35.2	---	---	---	---	---	---	4
5	---	---	---	---	4.44E	27.1	---	---	---	---	---	---	5
6	---	---	---	---	4.68E	23.3	---	---	---	---	---	---	6
7	---	---	---	---	4.91E	22.2	---	---	---	---	---	---	7
8	---	---	---	---	5.14A	20.7	---	---	---	---	---	---	8
9	---	---	---	---	6.11	19.6	---	---	---	---	---	---	9
10	---	---	---	---	5.53	17.8	---	---	---	---	---	---	10
11	---	---	---	---	5.32	29.9	---	---	---	---	---	---	11
12	---	---	---	---	5.13	41.9	---	---	---	---	---	---	12
13	---	---	---	---	4.91	69.9	---	---	---	---	---	---	13
14	---	---	---	---	5.56	46.5	---	---	---	---	---	---	14
15	---	---	---	---	5.59	34.1	---	---	---	---	---	---	15
16	---	---	---	---	6.14	37.1	---	---	---	---	---	---	16
17	---	---	---	---	6.58	39.8	---	---	---	---	---	---	17
18	---	---	---	---	7.41	36.4	---	---	---	---	---	---	18
19	---	---	---	---	7.23	31.7	---	---	---	---	---	---	19
20	---	---	---	---	8.38	29.4	---	---	---	---	---	---	20
21	---	---	---	---	9.47	26.6	---	---	---	---	---	---	21
22	---	---	---	---	8.57	26.8	---	---	---	---	---	---	22
23	---	---	---	---	8.61	28.9	---	---	---	---	---	---	23
24	---	---	---	---	11.0	25.1	---	---	---	---	---	---	24
25	---	---	---	---	27.5	22.0	12.9A	---	---	---	---	---	25
26	---	---	---	---	41.3	18.5A	---	---	---	---	---	---	26
27	---	---	---	---	26.6	17.0E	---	---	---	---	---	---	27
28	---	---	---	---	25.4	15.6E	---	---	---	---	---	---	28
29	---	---	---	---	26.2	14.6E	---	---	---	---	---	---	29
30	---	---	---	---	44.5	13.6E	---	---	---	---	---	---	30
31	---		---		59.2		---	---		---		---	31
TOTAL	---	---	---	---	397.10	954.7	---	---	---	---	---	---	TOTAL
MEAN	---	---	---	---	12.8	31.8	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	59.2	75.9	---	---	---	---	---	---	MAX
MIN	---	---	---	---	3.75	13.6	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 52 04 N
LONG 116 35 43 W
DRAINAGE AREA, 495 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	---	SEP	---
APR	---	OCT	---
MAY	34 300	NOV	---
JUN	82 500	DEC	---

CASCADE POWER DIVERSION NEAR BANFF - STATION NO. 05BD004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	8.35	17.9	18.3	8.41	0.340	24.6	20.0	4.47	3.85	11.4	11.1	6.94	1
2	12.6	16.6	18.4	11.1	11.1	9.06	19.8	4.33	4.02	11.4	11.3	4.79	2
3	13.1	12.4	15.5	11.4	8.55	0.340	19.8	5.41	4.05	11.1	4.36	15.8	3
4	14.2	9.91	13.3	10.7	7.70	24.1	17.0	0.481	11.2	13.5	2.61	15.7	4
5	13.9	17.6	18.5	9.77	0.311	25.5	15.8	0.453	11.2	14.2	11.9	15.5	5
6	9.34	13.3	18.6	9.12	0.311	26.8	14.8	0.453	11.9	4.02	15.5	15.9	6
7	8.38	13.5	18.5	0.311	10.3	26.8	8.27	7.11	12.7	3.45	15.5	10.6	7
8	14.2	13.4	18.3	0.311	8.35	26.7	6.37	6.74	8.52	4.16	16.2	6.88	8
9	13.4	13.4	18.1	11.4	8.58	26.1	14.0	6.80	6.91	14.1	14.6	4.76	9
10	14.2	13.3	16.8	10.6	8.67	26.0	15.4	7.22	12.7	13.6	5.21	17.0	10
11	14.1	11.8	15.5	10.4	5.41	26.4	12.6	0.453	12.7	13.6	3.88	16.9	11
12	15.6	14.1	18.8	9.88	0.311	26.8	13.2	0.453	12.9	14.4	15.0	17.2	12
13	11.2	17.7	19.0	0.311	0.311	24.4	15.4	7.84	13.5	3.11	16.1	15.7	13
14	9.85	17.4	19.0	0.311	8.41	25.9	12.6	7.73	13.5	2.92	16.2	15.8	14
15	15.7	17.4	18.9	0.311	5.64	26.8	8.92	9.15	8.04	14.1	15.8	6.82	15
16	14.9	17.8	19.1	2.66	5.58	26.1	16.9	8.33	6.23	14.2	15.4	5.38	16
17	14.9	14.0	16.8	10.5	5.44	26.3	15.5	8.61	12.5	14.6	7.59	16.8	17
18	15.5	12.0	15.6	10.5	4.62	26.9	8.67	0.453	12.6	14.7	4.76	11.2	18
19	16.2	14.2	19.0	10.5	0.340	26.7	8.61	0.453	11.7	14.7	15.0	17.1	19
20	11.9	17.8	19.2	9.51	0.340	26.8	7.99	8.13	12.2	5.44	13.9	11.3	20
21	9.91	18.3	19.0	0.311	0.340	26.2	0.481	7.70	11.8	2.78	14.0	17.1	21
22	16.1	18.3	19.0	0.311	12.7	27.2	0.481	7.70	4.64	15.2	15.4	7.56	22
23	15.6	18.3	19.1	11.2	9.74	26.3	4.67	7.50	3.40	15.3	15.4	6.65	23
24	16.3	14.0	16.9	10.5	9.85	26.8	0.481	8.75	9.06	15.4	7.02	7.65	24
25	15.3	12.7	14.2	10.4	14.1	26.8	12.5	0.453	8.47	13.5	4.62	6.91	25
26	16.3	18.2	18.9	6.63	9.12	27.0	14.9	3.51	6.85	15.4	15.5	8.24	26
27	11.9	18.3	19.0	7.67	0.340	27.4	14.7	8.27	7.90	11.5	15.5	12.7	27
28	10.0	18.2	18.3	0.340	15.4	27.9	0.510	6.91	7.76	11.2	15.5	8.33	28
29	16.5		18.4	0.340	15.6	27.4	0.481	7.71	5.30	14.2	15.1	8.58	29
30	17.0		18.2	11.1	19.3	24.9	7.25	8.55	4.16	11.1	15.5	8.41	30
31	17.0		15.6		24.1		5.01	8.33		11.3		13.4	31
TOTAL	423.43	431.81	551.8	206.807	231.204	747.000	333.094	169.852	272.26	349.58	365.45	353.60	TOTAL
MEAN	13.7	15.4	17.8	6.89	7.46	24.9	10.7	5.48	9.08	11.3	12.2	11.4	MEAN
MAX	17.0	18.3	19.2	11.4	24.1	27.9	20.0	9.15	13.5	15.4	16.2	17.2	MAX
MIN	8.35	9.91	13.3	0.311	0.311	0.340	0.481	0.453	3.40	2.78	2.61	4.76	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 12.2
MAXIMUM DAILY, 27.9 ON JUN 28
MINIMUM DAILY, 0.311 ON APR 07

DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 11 57 N
LONG 115 30 08 W

REGULATED SINCE 1942

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	36 600	JUL	28 800
FEB	37 300	AUG	14 700
MAR	47 700	SEP	23 500
APR	17 900	OCT	30 200
MAY	20 000	NOV	31 600
JUN	64 500	DEC	30 600

TOTAL DISCHARGE, 383 000 dam³

CASCADE RIVER ABOVE LAKE MINNEWANKA - STATION NO. 05BD005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	2.30E	62.5	26.6	11.8	5.35	3.39	---	---	1
2	---	---	---	---	2.30A	62.1	23.4	11.0	5.22	3.37	---	---	2
3	---	---	---	---	2.35	49.1	24.1	10.1	5.18	3.35	---	---	3
4	---	---	---	---	2.49	45.0	21.0	9.38	5.12	3.66	---	---	4
5	---	---	---	---	2.88	34.3	20.7	9.12	5.02	3.99	---	---	5
6	---	---	---	---	4.21	27.4	28.2	9.06	4.93	3.61	---	---	6
7	---	---	---	---	3.88	24.8	29.2	8.88	4.90	3.46	---	---	7
8	---	---	---	---	3.49	22.7	26.4	8.44	4.85A	3.37	---	---	8
9	---	---	---	---	3.26	22.8	24.5	8.09	4.75E	3.35	---	---	9
10	---	---	---	---	3.17	30.7	23.2	7.91	4.70E	3.38	---	---	10
11	---	---	---	---	3.16	34.8	22.3	7.70	4.60E	3.37	---	---	11
12	---	---	---	---	3.13	25.9	22.8	7.78	4.50E	3.33	---	---	12
13	---	---	---	---	3.11	21.6	22.8	8.59	4.45E	3.27	---	---	13
14	---	---	---	---	3.22	19.4	21.0	7.83	4.40E	3.20	---	---	14
15	---	---	---	---	3.15	21.9	18.6	7.48	4.30E	3.11	---	---	15
16	---	---	---	---	3.06	25.7	18.0	7.34	4.30E	3.10	---	---	16
17	---	---	---	---	3.15	28.6	16.7	7.08	4.40E	3.09	---	---	17
18	---	---	---	---	3.20	30.5	15.6	7.04	4.10E	3.02	---	---	18
19	---	---	---	---	3.44	27.8	16.1	6.72	4.00E	3.01	---	---	19
20	---	---	---	---	3.59	27.2	14.3	6.40	3.90E	2.98	---	---	20
21	---	---	---	---	4.05	28.7	12.9	6.34	3.80E	2.94	---	---	21
22	---	---	---	---	4.01	35.6	12.5	6.45	3.75E	2.93	---	---	22
23	---	---	---	---	4.50	42.1	12.7	6.39	3.65E	2.91	---	---	23
24	---	---	---	---	7.41	43.6	16.3	6.12	3.60E	2.88	---	---	24
25	---	---	---	---	31.1	40.5	17.3	5.99	3.55E	2.88	---	---	25
26	---	---	---	---	44.8	36.4	17.9	5.91	3.50A	2.90	---	---	26
27	---	---	---	---	27.3	32.0	15.5	5.66	3.42	2.85	---	---	27
28	---	---	---	---	24.4	28.4	14.6	5.60	3.42	2.83	---	---	28
29	---	---	---	---	34.6	26.3	13.2	5.49	3.40	2.81A	---	---	29
30	---		---	---	49.6	27.6	12.8	5.42	3.39	2.80E	---	---	30
31	---		---		43.3		12.3	5.39		2.80E		---	31
TOTAL	---	---	---	---	337.69	986.0	593.5	232.50	128.45	97.94	---	---	TOTAL
MEAN	---	---	---	---	10.9	32.9	19.1	7.50	4.28	3.16	---	---	MEAN
MAX	---	---	---	---	49.6	62.5	29.2	11.8	5.35	3.99	---	---	MAX
MIN	---	---	---	---	2.30	19.4	12.3	5.39	3.39	2.80	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 12.9
MAXIMUM DAILY, 62.5 ON JUN 01
MINIMUM DAILY, 2.30E ON MAY 01
MAXIMUM INSTANTANEOUS,
79.6 AT 21:19 MST ON JUN 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 17 15 N
LONG 115 32 00 W
DRAINAGE AREA, 454 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	51 300
FEB	---	AUG	20 100
MAR	---	SEP	11 100
APR	---	OCT	8 460
MAY	29 200	NOV	---
JUN	85 200	DEC	---

TOTAL DISCHARGE, 205 000 dam³

CASTLE RIVER AT RANGER STATION - STATION NO. 05AA028

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.73B	2.59	12.9	52.7	35.7	10.3	3.49	1.94	4.51B	---	1
2	---	---	1.79B	2.99	12.5	44.0	34.2	9.85	3.40	1.98	4.53B	---	2
3	---	---	1.82B	4.14	12.9	37.0	31.4	9.37	3.35	1.93	4.43B	---	3
4	---	---	1.89B	6.51	14.8	36.9	26.7	8.64	3.30	2.57	4.24B	---	4
5	---	---	1.84B	7.42	20.0	35.0	23.1	8.10	3.19	2.97	4.04B	---	5
6	---	---	1.81	7.49	35.2	31.8	21.4	7.58	3.08	2.89	4.22B	---	6
7	---	---	1.81	7.34	39.2	31.5	21.0	7.11	2.95	2.82	---	---	7
8	---	---	1.84	7.33	31.8	33.1	19.8	6.80	2.89	2.81	---	---	8
9	---	---	1.85	7.18	25.1	32.4	18.8	6.52	2.83	2.84	---	---	9
10	---	---	1.80	6.65B	21.6	38.5	18.5	6.22	2.74	3.31	---	---	10
11	---	---	1.79	6.69	19.3	46.0	18.1	5.98	2.66	3.24	---	---	11
12	---	---	1.78	6.53	18.7	43.8	17.7	5.73	2.61	3.23	---	---	12
13	---	---	1.76	6.41	18.0	36.3	17.3	5.50	2.66	3.18	---	---	13
14	---	---	1.82	6.34	17.7	32.5	16.7	5.23	2.54	3.08	---	---	14
15	---	---	1.87	6.62	17.2	29.6	15.5	5.11	2.50	3.00	---	---	15
16	---	---	1.88	6.98	16.4	29.1	14.3	5.10	2.46	3.07	---	---	16
17	---	---	1.89	7.37	16.5	31.1	13.5	4.91	2.40	2.94	---	---	17
18	---	---	1.89	8.25	17.7	36.0	12.8	4.84	2.34	2.90	---	---	18
19	---	---	1.94	11.0	18.7	39.9	12.2	4.82	2.30	2.84	---	---	19
20	---	---	2.07	15.4	19.6	44.3	11.4	4.97	2.26	2.75	---	---	20
21	---	---	2.09	19.3	19.9	46.3	10.6	4.71	2.21	2.70	---	---	21
22	---	---	2.09B	22.8	19.6	44.3	9.75	4.56	2.18	2.64	---	---	22
23	---	---	2.10B	25.3	21.3	47.6	9.36	4.40	2.12	2.59	---	---	23
24	---	---	2.09B	25.8	30.0	53.2	9.63	4.29	2.06	2.51	---	---	24
25	---	---	2.08B	23.7	42.6	52.5	15.8	4.33	2.01	2.46	---	---	25
26	---	---	2.07B	21.2	41.4	50.1	16.3	4.23	1.98	2.55	---	---	26
27	---	1.62B	2.01	19.1	36.0	47.2	15.1	4.00	1.96	2.68	---	---	27
28	---	1.68B	2.05	18.1 B	36.3	42.9	13.8	3.81	1.96	2.78	---	---	28
29	---		2.09	15.3	44.6	37.3	12.8	3.69	1.92	2.88	---	---	29
30	---		2.17	13.7	58.6	34.7	11.8	3.60	1.90	2.98B	---	---	30
31	---		2.34		58.2		11.0	3.57		3.69B		---	31
TOTAL	---	---	60.05	345.53	814.3	1 197.8	535.84	177.87	76.25	86.75	---	---	TOTAL
MEAN	---	---	1.94	11.5	26.3	39.9	17.3	5.74	2.54	2.80	---	---	MEAN
MAX	---	---	2.34	25.8	58.6	53.2	35.7	10.3	3.49	3.69	---	---	MAX
MIN	---	---	1.73	2.59	12.5	29.1	9.36	3.57	1.90	1.93	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 13.4
MAXIMUM DAILY, 58.6 ON MAY 30
MINIMUM DAILY, 1.73B ON MAR 01
MAXIMUM INSTANTANEOUS,
62.1 AT 22:10 MST ON MAY 30

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 23 55 N
LONG 114 20 20 W
DRAINAGE AREA, 376 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	46 300
FEB	---	AUG	15 400
MAR	5 190	SEP	6 590
APR	29 900	OCT	7 500
MAY	70 400	NOV	---
JUN	103 000	DEC	---

TOTAL DISCHARJE, 284 000 dam³

CASTLE RIVER NEAR BEAVER MINES - STATION NO. 05AA022

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	5.53B	2.70B	2.31B	6.39	26.3	105	52.4	14.7	5.08	2.87	8.08	8.70B	1
2	5.27B	2.90B	2.28B	8.34	28.2	88.7	49.9	13.8	4.89	3.10	7.79	8.80B	2
3	4.54B	3.15B	2.22B	12.8	31.5	75.1	46.1	13.2	4.72	2.95	7.37	8.90B	3
4	4.88B	3.20B	2.12B	14.4	39.0	76.6	40.0	12.2	4.60	4.33	7.10	8.70B	4
5	5.23B	3.20B	2.20B	14.2	50.9	70.9	34.4	11.6	4.44	10.8	6.88	8.24B	5
6	5.01B	3.21B	2.25B	14.0	78.0	63.3	31.6	10.9	4.29	7.61	5.85	7.96B	6
7	4.68B	3.25B	2.26B	13.8	78.9	62.2	31.3	10.3	4.14	6.35	6.13	7.92B	7
8	4.39B	3.35B	2.36B	14.6	64.9	64.0	29.7	9.90	4.04	5.75	6.08	7.61B	8
9	4.25B	3.50B	2.26B	13.6 B	52.5	61.0	28.0	9.58	3.97	5.48	6.26	7.48B	9
10	5.42B	3.85B	2.39B	12.0 B	46.6	69.3	27.3	9.21	3.89	6.41	23.5	7.30B	10
11	4.15B	3.90B	2.43B	12.1 B	41.0	77.6	26.5	8.84	3.82	6.38	40.8	7.12B	11
12	3.90B	3.80B	2.32B	11.0	39.7	72.6	26.0	8.56	3.76	5.92	34.9	6.30B	12
13	4.00B	3.52B	2.38B	11.9	38.3	60.8	25.2	8.31	4.03	5.78	27.2	5.36B	13
14	3.90B	2.90B	2.52B	12.3	37.5	55.3	24.1	8.06	3.84	5.51	24.3	5.25B	14
15	3.70B	2.70B	2.30B	14.7	36.8	49.9	22.0	7.74	3.73	5.29	19.6	5.42B	15
16	3.38B	2.65B	2.30B	16.2	35.6	48.6	20.1	7.85	3.68	5.26	16.5	5.35B	16
17	3.14B	2.70B	2.29B	16.2	35.1	52.7	18.7	7.48	3.62	5.11	14.6	5.30B	17
18	2.85B	2.90B	2.25B	19.5	38.1	59.9	17.3	7.40	3.57	4.92	13.2	4.20B	18
19	3.60B	3.10B	2.20B	28.7	39.9	66.1	16.2	7.19	3.51	4.90	12.0	3.60B	19
20	4.00B	3.30B	2.18B	40.0	40.8	72.0	15.1	7.88	3.48	4.69	11.2	3.00B	20
21	4.75B	3.51B	2.20B	48.1	40.9	73.2	13.4	7.31	3.40	4.53	10.6	2.55B	21
22	5.40B	3.90B	2.30B	54.3	40.0	68.9	12.4	6.84	3.34	4.48	10.0 B	2.45B	22
23	4.16B	4.41B	2.50B	57.3	43.4	72.6	12.0	6.59	3.27	4.33	9.60B	2.35B	23
24	3.40B	3.94B	2.85B	55.7	60.8	78.5	12.2	6.42	3.19	4.20	8.90B	2.30B	24
25	3.75B	3.75B	3.00B	50.7	97.8	77.7	26.0	6.51	3.09	4.18	8.40B	2.35B	25
26	3.35B	3.50B	3.35B	44.5	89.4	74.1	28.5	6.51	3.02	4.85	8.00B	2.40B	26
27	3.35B	3.21B	3.50B	39.0	76.1	69.7	24.5	6.10	3.02	5.17	7.80B	2.50B	27
28	3.20B	2.90B	3.59	36.0	73.9	63.5	21.5	5.79	3.00	5.09	8.00B	2.60B	28
29	3.00B		3.96	30.3	102	54.7	19.0	5.46	2.93	5.32	8.20B	2.70B	29
30	2.75B		4.54	26.6	119	51.3	17.1	5.24	2.87	5.27	8.50B	2.70B	30
31	2.60B		5.37		108		15.8	5.22		6.96		2.65B	31
TOTAL	125.53	92.90	82.98	750.23	1 730.9	2 035.8	784.3	262.69	112.23	163.79	387.34	160.06	TOTAL
MEAN	4.05	3.32	2.68	25.0	55.8	67.9	25.3	8.47	3.74	5.28	12.9	5.16	MEAN
MAX	5.53	4.41	5.37	57.3	119	105	52.4	14.7	5.08	10.8	40.8	8.90	MAX
MIN	2.60	2.65	2.12	6.39	26.3	48.6	12.0	5.22	2.87	2.87	5.85	2.30	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 18.3
MAXIMUM DAILY, 119 ON MAY 30
MINIMUM DAILY, 2.12B ON MAR 04
MAXIMUM INSTANTANEOUS,
120 AT 19:10 MST ON MAY 30

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 29 20 N
LONG 114 08 40 W
DRAINAGE AREA, 823 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	10 800	JUL	67 800
FEB	8 030	AUG	22 700
MAR	7 170	SEP	9 700
APR	64 800	OCT	14 200
MAY	150 000	NOV	33 500
JUN	176 000	DEC	13 800

TOTAL DISCHARGE, 579 000 dam³

CATARACT CREEK NEAR FORESTRY ROAD - STATION NO. 05BL022

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.460B	0.306B	0.293B	0.357B	1.51	21.5	6.67	4.70	1.19	0.498	0.554	0.570B	1
2	0.450B	0.312B	0.290B	0.450B	1.48	18.8	6.04	4.31	1.15	0.537	0.477	0.590B	2
3	0.445B	0.311B	0.295B	0.506B	1.75	17.2	5.60	3.85	1.12	0.519	0.510B	0.607B	3
4	0.398B	0.296B	0.286B	0.540B	2.75	16.2	5.05	3.44	1.07	0.830	0.543	0.560	4
5	0.372B	0.286B	0.280B	0.560B	5.03	14.0	4.66	3.15	1.03	1.51	0.540B	0.608	5
6	0.359B	0.285B	0.267B	0.590B	10.0	12.4	4.47	2.89	0.980	0.937	0.520B	0.580B	6
7	0.352B	0.275B	0.264B	0.624B	7.86	12.0	5.01	2.66	0.934	0.645	0.500B	0.562	7
8	0.338B	0.277B	0.272B	0.631B	5.65	11.1	4.49	2.50	0.913	0.734	0.493	0.490	8
9	0.332B	0.277B	0.270B	0.620B	4.71	10.8	4.13	2.38	0.860	0.725	0.501	0.472	9
10	0.325B	0.280B	0.261B	0.590B	4.21	11.7	3.85	2.32	0.842	0.744	0.585	0.464	10
11	0.369B	0.270B	0.257B	0.560B	3.84	12.1	3.63	2.38	0.831	0.668	0.759B	0.457	11
12	0.390B	0.263B	0.265B	0.569B	3.56	10.3	3.49	2.38	0.822	0.667	0.818B	0.450B	12
13	0.357B	0.254B	0.279B	0.570B	3.42	9.56	3.24	2.14	0.929	0.590	0.775B	0.438B	13
14	0.339B	0.248B	0.280B	0.578B	3.26	9.17	2.95	1.99	0.837	0.556	0.761B	0.397B	14
15	0.353B	0.253B	0.275B	0.660B	2.97	8.60	2.73	1.85	0.798	0.611	0.740B	0.390B	15
16	0.391B	0.257B	0.298B	0.758B	2.94	8.62	2.52	1.80	0.766	0.592	0.732	0.390B	16
17	0.375B	0.248B	0.276B	0.980B	3.01	8.97	2.40	1.75	0.744	0.590B	0.670	0.381B	17
18	0.403B	0.246B	0.275B	1.22	3.30	9.73	2.52	1.83	0.726	0.580B	0.660B	0.350B	18
19	0.410B	0.255B	0.280B	1.75	3.35	10.2	3.34	2.06	0.706	0.568	0.650B	0.320B	19
20	0.420B	0.255B	0.272B	2.40	3.69	10.5	2.64	1.79	0.688	0.520	0.640B	0.278B	20
21	0.430B	0.246B	0.280B	2.88	3.84	10.3	2.39	1.63	0.665	0.580	0.600B	0.290B	21
22	0.406B	0.243B	0.290B	3.32	4.15	10.5	2.20	1.54	0.655	0.532	0.560B	0.300B	22
23	0.389B	0.234B	0.298B	3.32	5.71	11.4	2.24	1.66	0.611	0.492	0.518	0.320B	23
24	0.359B	0.232B	0.330B	2.96	11.7	11.3	2.53	1.67	0.577	0.528	0.542B	0.342B	24
25	0.361B	0.222B	0.330B	2.72	41.7	10.8	8.20	1.70	0.559	0.611	0.659B	0.350B	25
26	0.355B	0.223B	0.330B	2.31	44.6	10.1	12.8	1.68	0.552	0.689	0.682B	0.359B	26
27	0.336B	0.249B	0.310B	2.00	27.1	9.24	10.9	1.52	0.551	0.579	0.633B	0.328B	27
28	0.337B	0.279B	0.299B	1.68	21.6	9.12	8.52	1.38	0.534	0.738	0.592B	0.304B	28
29	0.333B		0.300B	1.17	34.0	9.25	6.99	1.32	0.523	0.657	0.537B	0.290B	29
30	0.318B		0.309B	1.66	32.7	6.99	5.89	1.27	0.506	0.662	0.553B	0.270B	30
31	0.312B		0.323B		25.8		5.24	1.22		0.598		0.280B	31
TOTAL	11.574	7.382	8.934	40.133	331.15	339.45	147.33	68.76	23.669	20.287	18.304	12.787	TOTAL
MEAN	0.373	0.264	0.288	1.34	10.7	11.3	4.75	2.22	0.789	0.654	0.610	0.413	MEAN
MAX	0.460	0.312	0.330	3.32	44.6	21.5	12.8	4.70	1.19	1.51	0.818	0.608	MAX
MIN	0.312	0.222	0.257	0.357	1.48	6.99	2.20	1.22	0.506	0.492	0.477	0.270	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.82
MAXIMUM DAILY, 44.6 ON MAY 26
MINIMUM DAILY, 0.222B ON FEB 25
MAXIMUM INSTANTANEOUS,
56.0 AT 23:47 MST ON MAY 25

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 17 04 N
LONG 114 35 25 W
DRAINAGE AREA, 166 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 000	JUL	12 700
FEB	638	AUG	5 940
MAR	772	SEP	2 050
APR	3 470	OCT	1 750
MAY	28 600	NOV	1 580
JUN	29 300	DEC	1 100

TOTAL DISCHARGE, 88 900 dam³

CAVAN LAKE DIVERSION NEAR DUNMORE - STATION NO. 05AH044

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	0 B	0.076B	0.013	0	0.016	0	0	0	0	---	---	1
2	---	0 B	0.068B	0.010	0	0.009	0	0	0	0	---	---	2
3	---	0 B	0.074B	0.008	0	0.005	0	0	0	0	---	---	3
4	---	0 B	0.100B	0.008	0	0.001	0	0	0	0	---	---	4
5	---	0 B	0.400B	0.006	0	0	0	0	0	0	---	---	5
6	---	0 B	0.296	0.005	0	0	0	0	0	0	---	---	6
7	---	0 B	0.178	0.004	0	0	0	0	0	0	---	---	7
8	---	0 B	0.236	0.002	0	0	0	0	0	0	---	---	8
9	---	0 B	0.121	0.002	0	0	0	0	0	0	---	---	9
10	---	0 B	0.094	0.002	0	0	0	0	0	0	---	---	10
11	---	0 B	0.048B	0.001	0	0	0	0	0	0	---	---	11
12	---	0 B	0.022B	0	0	0	0	0	0	0	---	---	12
13	---	0 B	0.012B	0	0	0	0	0	0	0	---	---	13
14	---	0 B	0.007B	0	0	0	0	0	0	0	---	---	14
15	---	0 B	0.007B	0	0	0.276	0	0	0	0	---	---	15
16	---	0 B	0.006B	0	0	0.269	0	0	0	0	---	---	16
17	---	0 B	0.004	0	0	0.205	0	0	0	0	---	---	17
18	---	0 B	0.004	0	0	0.149	0	0	0	0	---	---	18
19	---	0 B	0.003	0	0	0.101	0	0	0	0	---	---	19
20	---	0 B	0.003	0	0	0.062	0	0	0	0	---	---	20
21	---	0 B	0.017	0	0	0.035	0	0	0	0	---	---	21
22	---	0 B	0.062	0	0	0.015	0	0	0	0	---	---	22
23	---	0 B	0.063	0	0	0.008	0	0	0	0	---	---	23
24	---	0 B	0.055	0	0	0.006	0	0	0	0	---	---	24
25	---	0.041B	0.024	0	0	0.002	0	0	0	0	---	---	25
26	---	0.070B	0.011	0	0.125	0	0	0	0	0	---	---	26
27	---	0.250B	0.009	0	0.150	0	0	0	0	0	---	---	27
28	---	0.096B	0.012	0	0.098	0	0	0	0	0	---	---	28
29	---		0.020	0	0.060	0	0	0	0	0	---	---	29
30	OB		0.018	0	0.040	0	0	0	0	OA	---	---	30
31	OB		0.015		0.025		0	0		OE		---	31
TOTAL	---	0.465	2.065	0.061	0.498	1.159	0	0	0	0	---	---	TOTAL
MEAN	---	0.017	0.067	0.002	0.016	0.039	0	0	0	0	---	---	MEAN
MAX	---	0.250	0.400	0.013	0.150	0.276	0	0	0	0	---	---	MAX
MIN	---	0	0.003	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.016
MAXIMUM DAILY, 0.400B ON MAR 05
MINIMUM DAILY, OB ON FEB 01

SUMMARY FOR THE MONTHS FEB TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 53 51 N
LONG 110 29 47 W

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	40.2	AUG	0
MAR	178	SEP	0
APR	5.27	OCT	0
MAY	43.0	NOV	---
JUN	100	DEC	---

TOTAL DISCHARGE, 366 dam³

CHAIN LAKES RESERVOIR NEAR NANTON - STATION NO. 05AB037

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 294.927	1 294.460	1 294.159	1 294.328	1 295.203	1 297.606	1 297.228	1 297.275	1 297.200	1 297.112	1 297.141	1 296.740	1
2	1 294.906	1 294.452	1 294.156	1 294.354	1 295.156	1 297.677	1 297.219	1 297.267	1 297.200	1 297.109	1 297.126	1 296.725	2
3	1 294.891	1 294.438	1 294.159	1 294.382	1 295.344	1 297.684	1 297.218	1 297.261	1 297.194	1 297.104	1 297.106	1 296.715	3
4	1 294.878	1 294.425	1 294.161	1 294.404	1 295.455	1 297.614	1 297.202	1 297.254	1 297.194	1 297.104	1 297.097	1 296.706	4
5	1 294.862	1 294.409	1 294.166	1 294.423	1 295.580	1 297.550	1 297.203	1 297.243	1 297.191	1 297.118	1 297.082	1 296.695A	5
6	1 294.848	1 294.394	1 294.170	1 294.441	1 295.733	1 297.503	1 297.206	1 297.233	1 297.188	1 297.122	1 297.064	1 296.682E	6
7	1 294.834	1 294.379	1 294.172	1 294.460	1 295.893	1 297.464	1 297.216	1 297.225	1 297.184	1 297.124	1 297.054	1 296.672E	7
8	1 294.820	1 294.364	1 294.177	1 294.481	1 296.030	1 297.430	1 297.225	1 297.215	1 297.180	1 297.130	1 297.040	1 296.660E	8
9	1 294.801	1 294.352	1 294.181	1 294.498	1 296.132	1 297.406	1 297.223	1 297.212	1 297.174	1 297.139	1 297.021	1 296.648E	9
10	1 294.791	1 294.340	1 294.183	1 294.506	1 296.246	1 297.388	1 297.216	1 297.204	1 297.173	1 297.140	1 297.014	1 296.638E	10
11	1 294.776	1 294.325	1 294.189	1 294.518	1 296.355	1 297.360	1 297.210	1 297.200	1 297.171	1 297.141	1 296.995	1 296.624A	11
12	1 294.759	1 294.326	1 294.194	1 294.534	1 296.454	1 297.351	1 297.207	1 297.196	1 297.172	1 297.146	1 296.989	1 296.604	12
13	1 294.742	1 294.313	1 294.195	1 294.550	1 296.537	1 297.357	1 297.201	1 297.199	1 297.168	1 297.144	1 296.975	1 296.591	13
14	1 294.727	1 294.298	1 294.197	1 294.567	1 296.642	1 297.394	1 297.194	1 297.197	1 297.173	1 297.140	1 296.962	1 296.578	14
15	1 294.711	1 294.286	1 294.200	1 294.594	1 296.696	1 297.381	1 297.186	1 297.197	1 297.168	1 297.136	1 296.947	1 296.566	15
16	1 294.693	1 294.278	1 294.200	1 294.619	1 296.772	1 297.361	1 297.183	1 297.202	1 297.169	1 297.139	1 296.936	1 296.547	16
17	1 294.678	1 294.269	1 294.203	1 294.646	1 296.842	1 297.351	1 297.178	1 297.204	1 297.164	1 297.134	1 296.922	1 296.538	17
18	1 294.663	1 294.260	1 294.206	1 294.680	1 296.912A1	1 297.337	1 297.191	1 297.253	1 297.162	1 297.141	1 296.904	1 296.520	18
19	1 294.650	1 294.250	1 294.212	1 294.712	1 296.990E1	1 297.323	1 297.234	1 297.306	1 297.163	1 297.141	1 296.889	1 296.503	19
20	1 294.636	1 294.234	1 294.223	1 294.754	1 297.075	1 297.312	1 297.234	1 297.314	1 297.159	1 297.135	1 296.874	1 296.489	20
21	1 294.617	1 294.217	1 294.232	1 294.801	1 297.161	1 297.307	1 297.232	1 297.293	1 297.156	1 297.141	1 296.857	1 296.467	21
22	1 294.602	1 294.209	1 294.239	1 294.839	1 297.211	1 297.300	1 297.226	1 297.272	1 297.153	1 297.138	1 296.845	1 296.463	22
23	1 294.588	1 294.200	1 294.241	1 294.882	1 297.259	1 297.292	1 297.218	1 297.252	1 297.157	1 297.130	1 296.832	1 296.452	23
24	1 294.572	1 294.188	1 294.245	1 294.926	1 297.304	1 297.279	1 297.213	1 297.239	1 297.155	1 297.135	1 296.825	1 296.437	24
25	1 294.554	1 294.185	1 294.247	1 294.960	1 297.551	1 297.271	1 297.228	1 297.233A1	297.144	1 297.136	1 296.833	1 296.420	25
26	1 294.539	1 294.177	1 294.249	1 295.013	1 297.843	1 297.262	1 297.296	1 297.234E1	297.126	1 297.131	1 296.820	1 296.410	26
27	1 294.526	1 294.168	1 294.253	1 295.063	1 297.826	1 297.252	1 297.339	1 297.235E1	297.125	1 297.123	1 296.804	1 296.394	27
28	1 294.512	1 294.164	1 294.259	1 295.124	1 297.731	1 297.243	1 297.338	1 297.236A1	297.116	1 297.133	1 296.785	1 296.370	28
29	1 294.498		1 294.270	1 295.148	1 297.746	1 297.234	1 297.323	1 297.225	1 297.123	1 297.131	1 296.776	1 296.359	29
30	1 294.483		1 294.289	1 295.168	1 297.716	1 297.234	1 297.306	1 297.216	1 297.113	1 297.137	1 296.758	1 296.345	30
31	1 294.472		1 294.309		1 297.673		1 297.291	1 297.208		1 297.139		1 296.331	31
MEAN	1 294.696	1 294.299	1 294.211	1 294.679	1 296.683	1 297.384	1 297.232	1 297.235	1 297.164	1 297.132	1 296.943	1 296.545	MEAN
MAX	1 294.927	1 294.460	1 294.309	1 295.168	1 297.843	1 297.684	1 297.339	1 297.314	1 297.200	1 297.146	1 297.141	1 296.740	MAX
MIN	1 294.472	1 294.164	1 294.156	1 294.328	1 295.203	1 297.234	1 297.178	1 297.196	1 297.113	1 297.104	1 296.758	1 296.331	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MEAN, 1 296.195
MAXIMUM DAILY, 1 297.843 ON MAY 26
MINIMUM DAILY, 1 294.156 ON MAR 02
MAXIMUM INSTANTANEOUS,
1 297.877 AT 20:32 MST ON MAY 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 12 05 N
LONG 114 11 22 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

DRAINAGE AREA,
187 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

CHENAL DES QUATRE FOURCHES AT QUATRE FOURCHES - STATION NO. 07KF001

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	209.355	---	209.277	209.313	209.262	---	---	1
2	---	---	---	---	---	209.265	---	209.368	209.199	209.402	---	---	2
3	---	---	---	---	---	209.318	---	209.857	209.171	209.356	---	---	3
4	---	---	---	---	---	209.342	---	209.924	209.190	209.241	---	---	4
5	---	---	---	---	---	209.353	---	210.009	209.324	209.124	---	---	5
6	---	---	---	---	---	209.392	---	209.934	209.156	209.046	---	---	6
7	---	---	---	---	---	209.488	---	---	---	209.016	---	---	7
8	---	---	---	---	---	209.504	---	---	---	208.861	---	---	8
9	---	---	---	---	---	209.522	---	---	---	208.729	---	---	9
10	---	---	---	---	---	209.496	---	---	---	208.936	---	---	10
11	---	---	---	---	---	209.865	---	---	---	209.029	---	---	11
12	---	---	---	---	---	209.837	---	---	209.254A	209.115	---	---	12
13	---	---	---	---	---	209.556	---	---	209.050	209.052	---	---	13
14	---	---	---	---	---	209.457A	---	209.498	209.129	---	---	---	14
15	---	---	---	---	---	---	---	209.501	209.073	---	---	---	15
16	---	---	---	---	---	---	---	209.454A	209.088	---	---	---	16
17	---	---	---	---	---	---	---	209.490	208.888	---	---	---	17
18	---	---	---	---	---	---	---	209.324	208.993	---	---	---	18
19	---	---	---	---	---	209.892A	---	209.364	209.182	---	---	---	19
20	---	---	---	---	---	---	---	209.261	209.123	---	---	---	20
21	---	---	---	---	---	---	---	209.391	209.085	---	---	---	21
22	---	---	---	---	---	---	---	209.483	208.912	---	---	---	22
23	---	---	---	---	---	---	---	209.203	209.028	---	---	---	23
24	---	---	---	---	---	---	---	209.067	208.872	---	---	---	24
25	---	---	---	---	209.116A	---	---	209.354	208.881	---	---	---	25
26	---	---	---	---	209.167	---	---	209.336	208.970	---	---	---	26
27	---	---	---	---	209.348	---	---	209.298	209.108	---	---	---	27
28	---	---	---	---	209.247	---	---	209.301	209.075	---	---	---	28
29	---		---	---	209.191	---	---	209.394	208.728	---	---	---	29
30	---		---	---	209.180	---	---	209.410	209.138	---	---	---	30
31	---		---		209.342		209.771	209.454		---		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 38 50 N
LONG 111 17 20 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1967

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

CHINCHAGA RIVER NEAR HIGH LEVEL - STATION NO. 07OC001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	3.48B	1.31B	1.06 B	1.19B	169	211	21.8	7.90	2.16	2.16	1.40 B	0.670B	1
2	3.48B	1.28B	1.02 B	1.77B	171	182	20.0	8.73	2.01	2.16	1.35 B	0.690B	2
3	3.47B	1.29B	0.950B	2.05B	181	197	18.8	8.66	1.95	2.04	1.30 B	0.710B	3
4	3.36B	1.27B	0.914B	1.97B	194	210	18.1	8.36	1.94	1.99	1.25 B	0.750B	4
5	3.19B	1.23B	0.922B	3.26B	205	200	18.3	7.43	1.91	2.03	1.20 B	0.780B	5
6	3.15B	1.20B	0.921B	3.46B	212	190	21.4	6.51	1.91	2.02	1.15 B	0.810B	6
7	3.08B	1.22B	0.928B	3.13B	222	165	35.8	5.95	1.94	2.04	1.05 B	0.825B	7
8	2.92B	1.25B	0.924B	3.80B	234	139	41.1	5.50	1.92	2.04	0.980B	0.825B	8
9	2.68B	1.22B	0.922B	4.22B	240	124	40.5	5.12	1.94	2.05	0.930B	0.825B	9
10	2.61B	1.19B	0.979B	4.97B	234	118	36.8	4.66	2.16	2.06	0.895B	0.825B	10
11	2.61B	1.15B	1.05 B	5.13B	220	114	32.5	4.31	2.38	2.05	0.855B	0.810B	11
12	2.48B	1.16B	1.10 B	4.69B	201	112	29.4	3.95	2.37	2.05	0.825B	0.795B	12
13	2.38B	1.19B	1.11 B	4.89B	181	120	28.5	3.82	2.43	2.05	0.800B	0.795B	13
14	2.21B	1.15B	1.10 B	5.40B	161	142	24.8	3.70	2.49	2.05	0.790B	0.795B	14
15	2.04B	1.12B	1.09 B	21.3 B	143	189	22.4	3.66	2.49	2.04	0.795B	0.795B	15
16	1.97B	1.15B	1.07 B	23.6 B	130	175	20.7	3.65	2.50	1.86	0.800B	0.795B	16
17	1.91B	1.17B	0.975B	25.7 B	118	145	19.0	3.63	2.54	1.65	0.800B	0.795B	17
18	1.78B	1.17B	0.904B	27.3 B	107	122	17.7	3.51	2.54	1.63	0.795B	0.765B	18
19	1.71B	1.16B	0.866B	28.0 B	97.[illegible]	102	16.8	3.34	2.52	1.49	0.750B	0.730B	19
20	1.70B	1.16B	0.810B	31.0 B	90.[illegible]	85.1	16.9	3.17	2.37	1.49	0.710B	0.700B	20
21	1.68B	1.14B	0.813B	79.0 B	84.6E	72.0	16.7	3.15	2.24	0.829	0.685B	0.670B	21
22	1.63B	1.11B	0.804B	145	80.1E	61.6	15.5	2.92	2.22	0.962	0.655B	0.630B	22
23	1.48B	1.10B	0.796B	192	75.6E	53.5	14.5	3.30	2.21	1.53	0.650B	0.600B	23
24	1.42B	1.09B	0.772B	241	74.5E	46.7	13.4	3.46	2.17	1.38	0.645B	0.570B	24
25	1.39B	1.12B	0.783B	270	72.0E	41.2	12.4	3.60	2.15	1.48	0.645B	0.540B	25
26	1.40B	1.13B	0.775B	288	70.5E	35.9	11.4	3.44	2.14	1.32 B	0.650B	0.510B	26
27	1.36B	1.10B	0.755B	294	70.5E	31.9	10.4	3.01	2.13	1.01 B	0.650B	0.490B	27
28	1.37B	1.07B	0.756B	251	78.0A	28.3	9.55	2.83	2.13	1.29 B	0.650B	0.460B	28
29	1.37B		0.857B	214	189	25.4	8.97	2.80	2.12	1.35 B	0.660B	0.440B	29
30	1.35B		1.00 B	187	274	22.9	8.27	2.52	2.14	1.38 B	0.670B	0.420B	30
31	1.36B		1.04 B		254		7.63	2.29		1.40 B		0.390B	31
TOTAL	68.02	32.90	28.766	2 361.83	4 834.0	3 461.5	629.92	138.88	66.12	52.881	25.985	21.205	TOTAL
MEAN	2.19	1.18	0.928	78.7	156	115	20.3	4.48	2.20	1.71	0.866	0.684	MEAN
MAX	3.48	1.31	1.11	288	274	211	41.1	8.73	2.54	2.16	1.40	0.825	MAX
MIN	1.35	1.07	0.755	1.19	70.5	22.9	7.63	2.29	1.91	0.829	0.645	0.390	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 32.1
MAXIMUM DAILY, 288 ON APR 26
MINIMUM DAILY, 0.390B ON DEC 31
MAXIMUM INSTANTANEOUS, 294 AT 21:00 MST ON APR 26

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 35 48 N
LONG 118 20 00 W
DRAINAGE AREA, 10 400 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	5 880	JUL	54 400
FEB	2 840	AUG	12 000
MAR	2 490	SEP	5 710
APR	204 000	OCT	4 570
MAY	418 000	NOV	2 250
JUN	299 000	DEC	1 830

TOTAL DISCHARGE, 1 010 000 dam³

CHIP LAKE AT OUTLET TO LOBSTICK RIVER - STATION NO. 07BB008

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	788.293A	788.356	788.609	788.645	788.351	788.169	---	---	1
2	---	---	---	---	---	788.328	788.592	788.640	788.341	788.242	---	---	2
3	---	---	---	---	---	788.319	788.693	788.614	788.333	788.203	---	---	3
4	---	---	---	---	---	788.394	788.756	788.597	788.320	788.159	---	---	4
5	---	---	---	---	---	788.387	788.832	788.576	788.318	788.187	---	---	5
6	---	---	---	---	---	788.381	788.899	788.573	788.315	788.189	---	---	6
7	---	---	---	---	---	788.404	788.942	788.558	788.317	788.168	---	---	7
8	---	---	---	---	788.299A	788.419	788.960	788.541	788.305	788.180	---	---	8
9	---	---	---	788.213A	---	788.421	788.977	788.525	788.294	788.179	---	---	9
10	---	---	---	---	---	788.417	788.964	788.516	788.291	788.223	---	---	10
11	---	---	---	---	---	788.498	788.942	788.504	788.276	788.178	---	---	11
12	---	---	---	---	---	788.583	788.945	788.497	788.267	788.180	---	---	12
13	---	---	788.103A	---	---	788.630	788.946	788.483	788.274	788.209	---	---	13
14	---	---	---	---	---	788.665	788.924	788.466	788.272	788.184	---	---	14
15	---	---	---	---	---	788.716	788.889	788.457	788.259	788.161	---	---	15
16	---	---	---	---	---	788.736	788.892	788.454	788.252	788.158	---	---	16
17	---	---	---	---	---	788.753	788.886	788.446	788.273	788.143	---	---	17
18	---	---	---	---	---	788.754	788.858	788.439	788.266	788.154	---	---	18
19	---	---	---	---	---	788.751	788.842	788.429	788.273	788.207	---	---	19
20	---	---	---	---	---	788.741	788.819	788.422	788.262	788.142	---	---	20
21	---	---	---	---	---	788.722	788.801	788.408	788.245	788.155	---	---	21
22	---	---	---	---	---	788.695	788.779	788.435	788.236	788.169	---	---	22
23	---	---	---	---	788.293A	788.712	788.776	788.435	788.248	788.130	---	---	23
24	---	---	---	---	788.296	788.685	788.757	788.387	788.250	788.129	---	---	24
25	---	---	---	---	788.282	788.682	788.737	788.366	788.231	788.128	---	---	25
26	---	---	---	---	788.300	788.660	788.728	788.368	788.215	788.151	---	---	26
27	---	---	788.123A	---	788.299	788.659	788.751	788.379	788.208	788.109	---	---	27
28	---	---	---	---	788.304	788.656	788.711	788.363	788.175	788.151	---	---	28
29	---		---	---	788.310	788.628	788.688	788.351	788.215	788.109	---	---	29
30	---		---	---	788.329	788.624	788.670	788.302	788.199	788.110	---	---	30
31	---		---		788.344		788.668	788.355		788.109A		---	31
MEAN	---	---	---	---	---	788.579	788.814	788.471	788.270	788.164	---	---	MEAN
MAX	---	---	---	---	---	788.754	788.977	788.645	788.351	788.242	---	---	MAX
MIN	---	---	---	---	---	788.319	788.592	788.351	788.175	788.109	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 36 54 N
LONG 115 15 33 W

A - MANUAL GAUGE

E - ESTIMATED

NATURAL FLOW

DRAINAGE AREA, 1 210 km²

MAXIMUM INSTANTANEOUS,
789.016 AT 03:05 MST ON JUL 13

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

CHRISTINA RIVER NEAR CHARD - STATION NO. 07CE002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	2.72B	4.53B	84.1	30.5	22.1	5.78	3.65	3.22	---	---	1
2	---	---	2.70B	4.45B	87.3	28.4	20.7	5.41	3.55	3.24	---	---	2
3	---	---	2.68B	4.55B	86.3	26.5	20.1	5.20	3.51	3.38	---	---	3
4	---	---	2.66B	5.08B	83.7	25.0	20.0	5.37	3.45	3.45	---	---	4
5	---	---	2.70B	5.17B	82.2	23.5	19.5	5.29	3.42	3.51	---	---	5
6	---	---	2.81B	5.55B	80.5	22.1	18.6	5.15	3.42	3.54	---	---	6
7	---	---	2.99B	5.61B	84.7	20.9	17.7	4.68	3.39	3.72	---	---	7
8	---	---	2.92B	5.54B	85.7	19.7	16.8	4.31	3.34	3.75	---	---	8
9	---	---	2.85B	5.42B	89.2	19.0	16.1	4.12	3.28	3.82	---	---	9
10	---	---	2.80B	5.44B	92.3	18.3	15.5	4.17	3.24	4.13	---	---	10
11	---	---	2.80B	5.51B	94.1	22.4	14.9	4.11	3.22	4.16	---	---	11
12	---	---	2.82B	5.68B	93.2	39.5	14.5	4.01	3.23	4.17B	---	---	12
13	---	---	2.96B	5.61B	90.5	60.3	14.0	4.31	3.25	4.15B	---	---	13
14	---	---	3.06B	5.64B	88.0	70.8	12.9	4.05	3.26	4.09B	---	---	14
15	---	---	3.11B	5.36B	86.6	74.6	11.9	3.94	3.27	4.03B	---	---	15
16	---	---	3.17B	4.99B	84.0	74.1	11.1	4.03	3.27	3.96B	---	---	16
17	---	---	3.13B	5.16B	82.7	69.4	10.6	4.11	3.29	4.04B	---	---	17
18	---	---	3.12B	6.35B	78.8	65.5	9.96	4.14	3.31	4.21B	---	---	18
19	---	---	3.12B	8.00B	73.9	62.6	9.70	4.27	3.29	4.36B	---	---	19
20	---	---	3.11B	11.5 B	69.2	59.0	9.24	4.28	3.30	4.38B	---	---	20
21	---	---	2.95B	15.0 B	65.1	55.8	8.77	4.14	3.25	4.31B	---	---	21
22	---	---	2.63B	23.0 B	62.2	52.4	8.30	4.20	3.37	4.25B	---	---	22
23	---	---	2.51B	32.0 B	58.9	48.4	8.13	4.01	3.29	4.83B	---	---	23
24	---	---	2.44B	46.3 B	54.9	43.8	7.72	3.92	3.36	4.90B	---	---	24
25	---	---	2.38B	65.3	51.2	39.1	7.36	3.69	3.34	4.85B	---	---	25
26	---	---	2.52B	80.0	48.1	34.4	7.33	3.59	3.38	4.65B	---	---	26
27	---	---	2.78B	79.1	44.3	31.0	7.11	3.62	3.26	4.45B	---	---	27
28	---	---	2.97B	76.7	41.3	28.0	6.83	3.60	3.27	4.42B	---	---	28
29	---	---	3.33B	77.0	38.5	25.7	6.41	3.62	3.24	4.48B	---	---	29
30	---		3.88B	79.6	35.7	23.9	6.19	3.66	3.26	4.46B	---	---	30
31	---		4.37B		33.2		5.97	3.75		4.40B		---	31
TOTAL	---	---	90.99	689.16	2 230.0	1 214.6	386.02	132.51	99.96	127.31	---	---	TOTAL
MEAN	---	---	2.94	23.0	71.9	40.5	12.5	4.27	3.33	4.11	---	---	MEAN
MAX	---	---	4.37	80.0	94.1	74.6	25.1	5.78	3.65	4.90	---	---	MAX
MIN	---	---	2.38	4.45	33.2	18.3	5.97	3.59	3.22	3.22	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 20.3
MAXIMUM DAILY, 94.1 ON MAY 11
MINIMUM DAILY, 2.38B ON MAR 25
MAXIMUM INSTANTANEOUS,
94.9 AT 16:50 MST ON MAY 11

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 50 20 N
LONG 110 52 00 W
DRAINAGE AREA, 4 860 km²

B - ICE CONDITIONS

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	33 400
FEB	---	AUG	11 400
MAR	7 860	SEP	8 640
APR	59 500	OCT	11 000
MAY	193 000	NOV	---
JUN	105 000	DEC	---

TOTAL DISCHARGE, 430 000 dam³

CHRISTMAS CREEK NEAR BLUE RIDGE - STATION NO. 07AH002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.150B	0.800B	1.08	1.90	0.639	0.153	0.878	0.173	0.303B	---	1
2	---	---	0.147B	0.863B	0.950	1.81	0.699	0.138	0.877	0.167	---	---	2
3	---	---	0.125B	0.994B	0.973	1.77	2.55	0.126	0.713	0.167	---	---	3
4	---	---	0.110B	0.966B	1.02	1.61	6.78	0.117	0.495	0.182	---	---	4
5	---	---	0.112B	0.859B	1.09	2.10	6.31	0.118	0.384	0.215	---	---	5
6	---	---	0.107B	0.913B	1.00	2.39	5.18	0.113	0.348	0.241	---	---	6
7	---	---	0.107B	0.861B	1.05	2.17	4.27	0.093	0.315	0.252	---	---	7
8	---	---	0.116B	0.693B	1.03	2.06	3.40	0.084	0.326	0.271	---	---	8
9	---	---	0.130B	0.600B	0.957	2.29	2.86	0.079	0.307	0.275	---	---	9
10	---	---	0.152B	0.530B	0.992	2.40	2.39	0.073	0.286	0.306	---	---	10
11	---	---	0.168B	0.480B	0.989	2.34	1.88	0.069	0.263	0.347	---	---	11
12	---	---	0.135B	0.460B	0.830	3.37	1.53	0.063	0.253	0.368	---	---	12
13	---	---	0.129B	0.491B	0.792	4.62	1.19	0.056	0.265	0.375	---	---	13
14	---	---	0.146B	0.685B	0.728	4.87	0.944	0.054	0.308	0.371	---	---	14
15	---	---	0.151B	0.644B	0.746	4.36	0.749	0.046	0.300	0.349	---	---	15
16	---	---	0.150B	0.800B	0.790	3.45	0.612	0.056	0.278	0.334	---	---	16
17	---	---	0.157B	0.800B	0.770	2.84	0.556	0.058	0.308	0.323	---	---	17
18	---	---	0.167B	0.770B	0.747	2.34	0.526	0.062	0.277	0.310	---	---	18
19	---	---	0.180B	0.917B	0.770	2.03	0.544	0.062	0.252	0.303	---	---	19
20	---	---	0.192B	1.40 B	1.00	1.64	0.543	0.074	0.236	0.302	---	---	20
21	---	---	0.206B	1.60 B	1.21	1.32	0.510	0.080	0.225	0.300B	---	---	21
22	---	---	0.211B	1.93 B	1.55	1.17	0.481	0.085	0.221	0.281	---	---	22
23	---	---	0.222B	1.98	2.54	0.959	0.413	0.073	0.273	0.274B	---	---	23
24	---	---	0.230B	1.82	2.67	0.875	0.350	0.070	0.262	0.260	---	---	24
25	---	---	0.222B	1.77	2.57	0.773	0.303	0.070	0.234	0.259	---	---	25
26	---	---	0.214B	1.93	2.55	0.814	0.273	0.104	0.219	0.329	---	---	26
27	---	---	0.220B	1.73	2.40	0.765	0.251	0.143	0.208	0.361	---	---	27
28	---	---	0.230B	1.43	1.92	0.809	0.218	0.131	0.186	0.358	---	---	28
29	---	---	0.245B	1.31	1.73	0.721	0.204	0.144	0.180	0.335B	---	---	29
30	---		0.328B	1.17	1.48	0.703	0.181	0.179	0.174	0.323B	---	---	30
31	---		0.397B		1.61		0.171	0.433		0.313B		---	31
TOTAL	---	---	5.564	32.196	40.534	61.269	47.507	3.206	9.851	9.024	---	---	TOTAL
MEAN	---	---	0.180	1.07	1.31	2.04	1.53	0.103	0.328	0.291	---	---	MEAN
MAX	---	---	0.397	1.98	2.67	4.87	6.78	0.433	0.878	0.375	---	---	MAX
MIN	---	---	0.107	0.460	0.728	0.703	0.171	0.046	0.174	0.167	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.854
MAXIMUM DAILY, 6.78 ON JUL 04
MINIMUM DAILY, 0.046 ON AUG 15
MAXIMUM INSTANTANEOUS,
7.94 AT 19:11 MST ON JUL 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 13 40 N
LONG 115 19 58 W
DRAINAGE AREA, 424 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	4 100
FEB	---	AUG	277
MAR	481	SEP	851
APR	2 780	OCT	780
MAY	3 500	NOV	---
JUN	5 290	DEC	---

TOTAL DISCHARGE, 18 100 dam³

CLEAR RIVER NEAR BEAR CANYON - STATION NO. 07FD009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.118B	7.37B	41.4	27.1	3.86	0.439	0.079	0.011	---	---	1
2	---	---	0.116B	11.3 B	44.7	24.4	8.28	0.403	0.057	0.018	---	---	2
3	---	---	0.127B	17.9 B	43.9	19.8	9.68	0.365	0.044	0.027	---	---	3
4	---	---	0.144B	22.1 B	41.9	16.4	9.35	0.318	0.035	0.029	---	---	4
5	---	---	0.140B	25.2 B	40.5	14.5	8.33	0.288	0.030	0.041	---	---	5
6	---	---	0.148B	38.5 B	39.4	13.9	7.93	0.252	0.026	0.051	---	---	6
7	---	---	0.168B	34.0 E	36.4	15.5	8.01	0.220	0.023	0.070	---	---	7
8	---	---	0.149B	37.0 E	31.8	14.2	7.28	0.197	0.023	0.061	---	---	8
9	---	---	0.129B	34.0 A	28.5	11.7	6.36	0.188	0.022	0.059	---	---	9
10	---	---	0.125B	27.1 A	25.4	9.80	5.41	0.175	0.021	0.058	---	---	10
11	---	---	0.123B	21.0 A	22.5	13.5	4.69	0.165	0.020	0.059	---	---	11
12	---	---	0.116B	20.0	21.7	78.2 A	4.05	0.151	0.018	0.063	---	---	12
13	---	---	0.121B	20.3	19.7	82.6 A	3.95	0.134	0.017	0.069	---	---	13
14	---	---	0.136B	24.3	18.0	50.9 A	4.59	0.161	0.016	0.072	---	---	14
15	---	---	0.174B	28.0	15.6	32.8	4.13	0.182	0.016	0.075	---	---	15
16	---	---	0.204B	28.7 A	14.0	23.5	3.79	0.156	0.013	0.075	---	---	16
17	---	---	0.231B	30.8	13.1	18.6	6.00	0.136	0.009	0.075	---	---	17
18	---	---	0.253B	40.0	11.9	16.2	8.46	0.121	0.008	0.078	---	---	18
19	---	---	0.262B	53.6	11.2	12.8 A	7.36	0.111	0.007	0.091	---	---	19
20	---	---	0.262B	62.0	11.2	10.6 A	6.02	0.095	0.007	0.102	---	---	20
21	---	---	0.267B	64.4	12.0	9.49	4.61	0.078	0.007	0.108	---	---	21
22	---	---	0.270B	60.4	11.2	8.31	3.54	0.073	0.006	0.116	---	---	22
23	---	---	0.267B	58.7	10.2	7.22	2.77	0.070	0.007	0.128	---	---	23
24	---	---	0.245B	56.1	9.11	6.18	2.12	0.067	0.019	0.115	---	---	24
25	---	---	0.226B	76.9	9.36	5.22	1.64	0.063	0.006	0.112	---	---	25
26	---	---	0.201B	83.4	29.8	4.49	1.29	0.058	0.007	0.115	---	---	26
27	---	---	0.259B	61.1	46.3	3.86	1.00	0.049	0.009	0.121	---	---	27
28	---	0.134B	0.581B	47.0	32.0	3.38	0.782	0.034	0.011	0.130	---	---	28
29	---		1.85 B	39.2	23.2	3.05	0.669	0.028	0.011	0.114	---	---	29
30	---		3.07 B	37.9	19.8	2.80	0.544	0.025	0.019	0.146A	---	---	30
31	---		6.52 B		23.4		0.498	0.030		0.150E		---	31
TOTAL	---	---	22.004	1 168.27	758.97	561.00	146.993	4.832	0.593	2.539	---	---	TOTAL
MEAN	---	---	0.710	38.9	24.5	18.7	4.74	0.156	0.020	0.082	---	---	MEAN
MAX	---	---	6.52	83.4	46.3	82.6	9.68	0.439	0.079	0.150	---	---	MAX
MIN	---	---	0.116	7.37	9.11	2.80	0.498	0.025	0.006	0.011	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 10.9
MAXIMUM DAILY, 83.4 ON APR 26
MINIMUM DAILY, 0.006 ON SEP 22
MAXIMUM INSTANTANEOUS,
98.2 AT 19:30 MST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 18 32 N
LONG 119 40 44 W
DRAINAGE AREA, 2 880 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	12 700
FEB	---	AUG	417
MAR	1 900	SEP	51.2
APR	101 000	OCT	219
MAY	65 600	NOV	---
JUN	48 500	DEC	---

TOTAL DISCHARGE, 230 000 dam³

CLEARWATER RIVER ABOVE CHRISTINA RIVER - STATION NO. 07CD005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	56.1B	50.0B	49.4B	52.7B	163	96.4	75.7	50.6	46.5	43.6	44.9B	47.0B	1
2	55.7B	49.8B	49.0B	53.7B	168	94.0	77.1	49.8	46.1	44.4	44.0B	47.5B	2
3	55.6B	49.3B	49.1B	54.5B	177	92.4	78.0	48.9	45.0	46.4	43.8B	48.5B	3
4	55.4B	49.0B	49.4B	52.4B	186	91.5	78.0	48.3	44.7	48.1	43.0B	48.5B	4
5	55.3B	48.9B	49.6B	56.0B	191	89.5	76.2	48.0	44.4	50.1	42.0B	48.4B	5
6	56.1B	49.2B	49.7B	55.3B	192	88.3	74.5	47.5	44.1	50.9	41.8B	47.5B	6
7	55.7B	49.8B	49.7B	54.8B	198	87.4	73.7	47.3	43.7	51.2	46.0B	46.5B	7
8	55.9B	49.7B	49.6B	54.3B	205	85.8	72.2	46.3	43.2	50.9	49.5B	45.2B	8
9	56.6B	49.0B	49.6B	55.0B	201	84.2	70.9	45.2	42.6	51.1	47.0B	44.9B	9
10	55.6B	48.9B	49.6B	58.0B	192	83.4	70.4	44.9	42.4	51.0	44.0B	43.9B	10
11	55.6B	48.5B	49.7B	61.0B	185	85.8	69.1	45.3	42.4	50.8	41.0B	43.8B	11
12	54.9B	48.3B	49.9B	64.1B	177	92.7	68.0	44.9	42.4	50.9	40.0B	43.5B	12
13	54.6B	48.0B	50.6B	64.5B	169	96.5	66.1	45.2	42.6	51.1	42.0B	43.2B	13
14	54.3B	47.8B	51.6B	65.4B	162	98.2	62.7	44.4	43.5	51.3	50.1B	42.7B	14
15	54.2B	47.6B	51.9B	65.0B	155	97.8	61.0	43.9	43.7	51.3	52.4B	42.4B	15
16	54.3B	48.0B	51.7B	64.2B	150	96.4	59.3	43.6	43.8	51.3	51.0B	42.3B	16
17	54.2B	48.7B	51.7B	64.3B	143	94.8	58.8	43.3	44.1	50.9	48.2B	42.2B	17
18	54.1B	49.0B	52.0B	67.0B	137	96.4	58.6	43.1	43.9	49.1B	46.5B	42.2B	18
19	54.0B	48.9B	52.2B	80.0B	135	95.6	58.8	43.1	43.7	47.0B	46.0B	40.4B	19
20	53.9B	48.6B	52.2B	90.0B	131	94.0	59.1	43.0	43.6	45.0B	45.0B	40.0B	20
21	53.6B	48.1B	51.8B	102 B	129	92.7	59.0	42.5	43.6	43.6B	44.5B	40.4B	21
22	53.2B	48.2B	51.5B	115 B	126	91.2	58.2	43.4	43.5	45.0B	44.0B	40.9B	22
23	53.0B	48.3B	51.2B	155 B	124	89.5	57.1	42.7	43.8	47.0B	43.5B	41.5B	23
24	53.0B	47.6B	51.5B	193	122	88.6	56.4	43.1	44.5	48.5B	43.0B	40.9B	24
25	53.1B	48.0B	52.1B	212	119	88.2	56.0	43.6	43.8	48.0B	42.8B	40.0B	25
26	52.9B	49.0B	52.0B	210	116	84.3	54.8	44.5	43.5	46.5B	43.5B	40.1B	26
27	52.2B	49.1B	51.9B	192	113	81.0	53.7	44.6	43.5	44.4B	46.0B	40.4B	27
28	51.9B	49.2B	51.9B	172	109	78.4	52.6	44.3	43.5	44.2B	49.0B	39.5B	28
29	51.3B		51.9B	162	106	76.5	52.4	43.8	43.5	44.0B	51.0B	39.2B	29
30	51.0B		52.2B	162	102	75.1	52.0	43.6	43.8	44.4B	48.5B	37.9B	30
31	50.6B		52.4B		98.7		51.5	45.1		44.6B		37.7B	31
TOTAL	1 676.9	1 365.5	1 578.6	2 910.2	4 681.7	2 686.3	1 971.9	1 397.8	1 312.9	1 486.6	1 364.0	1 329.1	TOTAL
MEAN	54.1	48.8	50.9	97.0	151	89.5	63.6	45.1	43.8	48.0	45.5	42.9	MEAN
MAX	56.1	50.0	52.4	212	205	98.2	78.0	50.6	46.5	51.3	52.4	48.5	MAX
MIN	50.6	47.6	49.0	52.7	98.7	75.1	51.5	42.5	42.4	43.6	40.0	37.7	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 65.1
MAXIMUM DAILY, 212 ON APR 25
MINIMUM DAILY, 37.7B ON DEC 31
MAXIMUM INSTANTANEOUS,
219 AT 23:52 MST ON APR 25

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 39 40 N
LONG 110 55 40 W
DRAINAGE AREA, 17 000 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	145 000	JUL	170 000
FEB	118 000	AUG	121 000
MAR	136 000	SEP	113 000
APR	251 000	OCT	128 000
MAY	404 000	NOV	118 000
JUN	232 000	DEC	115 000

TOTAL DISCHARGE, 2 050 000 dam³

CLEARWATER RIVER ABOVE LIMESTONE CREEK - STATION NO. 05DB003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	7.76A	107	49.4	30.5	18.0	10.5	8.43	---	1
2	---	---	---	---	8.18	193 E	46.7	29.2	17.4	10.4	8.11A	---	2
3	---	---	---	---	8.38	101 E	50.0	27.4	16.7	10.2	---	---	3
4	---	---	---	---	8.30	77.7	43.2	25.3	16.2	10.5	---	---	4
5	---	---	---	---	8.57	63.1	39.2	24.5	15.8	11.6	---	---	5
6	---	---	---	---	10.4	56.8	46.4	24.7	15.5	11.4	---	---	6
7	---	---	---	---	10.9	51.9	65.4	25.7	15.1	10.7	---	---	7
8	---	---	---	---	10.4	44.8	60.8	25.5	15.1	10.5	---	---	8
9	---	---	---	---	10.3	40.1	51.9	24.5	14.9	10.5	---	---	9
10	---	---	---	---	10.3	41.2	48.5	26.0	14.7	10.6	---	---	10
11	---	---	---	---	10.7	47.5	46.0	24.4	14.4	10.5	---	---	11
12	---	---	---	---	11.2	45.7	45.3	24.2	14.5	9.96	---	---	12
13	---	---	---	---	10.9	46.4	47.2	25.1	14.6	9.78	---	---	13
14	---	---	---	---	10.9	45.2	46.6	24.8	14.0	9.41	---	---	14
15	---	---	---	---	11.2	42.2	41.5	24.9	13.5	9.15	---	---	15
16	---	---	---	---	11.5	51.7	40.4	25.1	13.3	9.28	---	---	16
17	---	---	---	---	11.4	56.1	38.9	25.8	13.4	8.78	---	---	17
18	---	---	---	---	11.9	57.5	35.3	25.3	13.1	8.85	---	---	18
19	---	---	---	---	12.7	54.3	35.9	24.1	12.7	8.82	---	---	19
20	---	---	---	---	12.6	52.2	31.5	22.9	12.3	8.41	---	---	20
21	---	---	---	---	13.2	48.8	28.7	22.2	12.0	8.43	---	---	21
22	---	---	---	---	12.7	51.8	27.0	22.8	11.6	8.58	---	---	22
23	---	---	---	---	13.5	62.7	27.3	24.2	11.3	8.23	---	---	23
24	---	---	---	---	18.1	69.2	29.9	22.9	11.0	8.24	---	---	24
25	---	---	---	---	80.4	69.6	37.2	21.4	10.8	8.45	---	---	25
26	---	---	---	---	135	63.5	34.9	20.6	10.9	8.60	---	---	26
27	---	---	---	---	74.1	58.6	32.0	19.5	10.8	8.48	---	---	27
28	---	---	---	---	59.8	56.5	32.0	18.8	10.9	8.53	---	---	28
29	---	---	---	---	60.7	50.5	30.9	18.1	10.8	8.62	---	---	29
30	---		---	---	91.7	47.8	29.5	17.6	10.6	8.31	---	---	30
31	---		---		97.7		30.6	18.2		8.34		---	31
TOTAL	---	---	---	---	861.39	1 855.4	1 250.0	736.2	405.9	292.65	---	---	TOTAL
MEAN	---	---	---	---	27.8	61.8	40.3	23.7	13.5	9.44	---	---	MEAN
MAX	---	---	---	---	135	193	65.4	30.5	18.0	11.6	---	---	MAX
MIN	---	---	---	---	7.76	40.1	27.0	17.6	10.6	8.23	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 29.4
MAXIMUM DAILY, 193E ON JUN 02
MINIMUM DAILY, 7.76A ON MAY 01
MAXIMUM INSTANTANEOUS,
270E AT 02:15 MST ON JUN 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 59 30 N
LONG 115 26 00 W
DRAINAGE AREA, 1 340 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	108 000
FEB	---	AUG	63 600
MAR	---	SEP	35 100
APR	---	OCT	25 300
MAY	74 400	NOV	---
JUN	160 000	DEC	---

TOTAL DISCHARGE, 466 000 dam³

REMARKS - 30 CMS WAS ESTIMATED TO HAVE BYPASSED THE GAUGE.

CLEARWATER RIVER AT DRAPER - STATION NO. 07CD001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	71.0B	61.0B	59.8B	64.7B	351	191A	145	73.6	60.1	54.8	48.5B	53.2B	1
2	70.5B	60.5B	60.2B	66.8B	356A	185A	143	71.9	60.5A	55.8	48.9B	51.2B	2
3	70.0B	60.0B	59.8B	68.8B	368A	175	140	70.5	59.0A	58.3	48.8B	52.0B	3
4	69.8B	59.5B	59.6B	70.5B	378A	170A	137	70.1A	58.0A	60.6	47.5B	53.6B	4
5	69.8B	59.2B	59.6B	73.6B	381A	167A	133	68.5E	57.7	62.3	47.0B	53.1B	5
6	70.0B	59.4B	59.6B	76.8B	381	167A	131	68.0E	57.2A	63.7	46.0B	52.6B	6
7	71.0B	59.8B	59.2B	78.6B	397	167E	129	67.0E	56.9A	64.2	50.5B	51.9B	7
8	71.9B	59.8B	59.0B	80.1B	411	166E	127	66.5E	56.9A	64.0	55.0B	51.0B	8
9	71.5B	59.4B	59.2B	81.0B	411	165E	124	65.0E	56.1A	64.1	53.5B	50.3B	9
10	71.1B	59.0B	59.1B	81.5B	402	164E	123	64.0E	55.8A	64.2	50.0B	49.8B	10
11	70.7B	58.8B	58.9B	83.8B	397	165A	121	62.0E	55.7A	64.2	47.0B	49.6B	11
12	70.1B	58.5B	58.7B	84.0B	388	186	118	62.0E	55.7A	64.6	45.0B	49.7B	12
13	69.0B	58.2B	58.8B	84.2B	374	225	113	62.5E	56.1A	65.6	44.5B	49.4B	13
14	69.2B	58.0B	59.4B	86.0B	360	262	108	62.5E	56.5	66.3	49.0B	49.3B	14
15	68.8B	58.0B	59.9B	86.2B	348	278	104	62.0E	58.2A	66.3	54.5B	48.8B	15
16	67.7B	58.0B	59.9B	87.8B	337	280	100	60.0E	58.2A	66.7	57.5B	48.5B	16
17	66.5B	58.2B	59.9B	90.0B	326	273	97.9	58.0E	58.2	66.3	55.0B	49.5B	17
18	66.3B	58.8B	60.2B	94.0B	313	264	96.4	57.5E	57.4A	64.0B	52.5B	48.2B	18
19	65.6B	58.9B	60.4B	100 B	306	253	94.9	56.5E	57.3A	62.0B	50.5B	47.6B	19
20	65.2B	58.6B	60.5B	126 B	296	241	93.8	56.0E	57.1A	60.5B	50.0B	47.1B	20
21	64.8B	58.2B	60.7B	150 B	286	230	92.2	55.9A	56.7A	59.5B	48.5B	46.8B	21
22	64.4B	58.0B	61.0B	190 B	276	219	90.2	56.9	56.5A	58.2B	48.3B	46.8B	22
23	64.2B	58.0B	61.4B	230 B	268	208	87.9	56.8	56.2A	59.8B	47.8B	46.7B	23
24	63.3B	58.4B	61.8B	289 B	261	200	85.6	56.6	56.2A	60.6B	47.4B	46.6B	24
25	63.3B	59.0B	60.6B	351	252	190	84.8	57.5	56.0	60.7B	47.0B	46.5B	25
26	63.4B	59.5B	60.5B	392	242	179	82.6	58.4	55.7	62.2B	46.8B	46.5B	26
27	63.4B	59.8B	60.9B	387	232	168	80.9	58.3	55.1	60.1B	48.4B	46.5B	27
28	63.1B	59.8B	60.9B	372	222	158	79.0	57.8	54.9	58.4B	50.9B	46.5B	28
29	62.3B		61.1B	351	212	150	78.0	56.9	55.0	54.9B	54.4B	46.1B	29
30	61.4B		61.9B	348	204A	144	77.1	57.0	55.0	55.9B	55.3B	45.5B	30
31	61.3B		63.2B		198A		75.5	58.1		48.8B		44.9B	31
TOTAL	2 080.6	1 652.3	1 865.7	4 724.4	9 934	5 990	3 292.8	1 914.3	1 705.9	1 897.6	1 496.0	1 514.8	TOTAL
MEAN	67.1	59.0	60.2	157	320	200	106	61.8	56.9	61.2	49.9	48.9	MEAN
MAX	71.9	61.0	63.2	392	411	280	145	73.6	60.5	66.7	57.5	53.6	MAX
MIN	61.3	58.0	58.7	64.7	198	144	75.5	55.9	54.9	48.8	44.5	44.9	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 104
MAXIMUM DAILY, 411 ON MAY 08
MINIMUM DAILY, 44.5B ON NOV 13
MAXIMUM INSTANTANEOUS,
415 AT 19:53 MST ON MAY 08

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 41 07 N
LONG 115 15 15 W
DRAINAGE AREA, 30 800 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	180 000	JUL	284 000
FEB	143 000	AUG	165 000
MAR	161 000	SEP	147 000
APR	408 000	OCT	164 000
MAY	858 000	NOV	129 000
JUN	518 000	DEC	131 000

TOTAL DISCHARGE, 3 290 000 dam³

CLEARWATER RIVER NEAR DOVERCOURT - STATION NO. 05DB006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	8.04B	3.69B	6.56B	13.7 B	13.6	119	57.0	39.2	19.4	12.8	11.0	5.60B	1
2	8.36B	3.31B	6.77B	15.1 B	14.2	181	58.7	37.7	19.1	12.7	10.8	5.30B	2
3	7.61B	3.77B	6.93B	15.5	16.3	274	75.2	37.0	18.6	12.5	10.4	5.20B	3
4	6.94B	5.29B	7.08B	14.0	16.6	166	70.0	34.1	17.9	12.6	9.93	5.10B	4
5	6.78B	5.77B	7.08B	12.3	15.9	133	58.5	31.3	17.4	13.3	9.95	5.50B	5
6	7.42B	5.61B	7.37B	11.7	16.6	109	55.4	30.0	16.9	13.7	10.5	6.50B	6
7	8.59B	5.37B	7.56B	11.7	18.6	92.7	72.4	29.5	16.4	13.6	9.74	7.20B	7
8	8.32B	4.85B	8.46B	12.3	19.6	82.1	93.3	30.0	16.1	13.2	9.62	7.60B	8
9	7.94B	4.58B	7.17B	11.3	19.3	73.7	73.1	29.8	16.1	12.9	9.42	7.50B	9
10	8.39B	4.04B	7.79B	10.4	18.9	68.3	64.0	29.2	16.0	13.0	9.33	7.40B	10
11	6.60B	3.80B	7.64B	9.65	19.1	74.7	59.3	29.4	15.8	13.0	9.27	7.20B	11
12	5.31B	3.70B	7.47B	9.82	20.1	94.6	55.5	27.9	16.0	12.8	9.26	7.00B	12
13	6.63B	3.60B	6.39B	10.8	20.9	101	54.4	28.2	16.4	12.6	9.34	6.90B	13
14	8.24B	3.50B	6.30B	11.8	20.2	101	55.2	28.0	16.5	12.2	9.88	6.80B	14
15	7.44B	3.50B	5.90B	12.8	19.9	87.3	53.5	27.3	15.7	11.9	10.1	6.70B	15
16	7.07B	3.40B	5.70B	12.8	19.8	81.8	51.8	28.6	15.3	11.8	9.74	6.50B	16
17	6.22B	3.30B	5.30B	12.5	19.9	86.7	51.2	29.9	16.0	11.8	9.66	6.18B	17
18	5.13B	3.40B	5.00B	12.7	19.8	86.3	48.3	30.2	15.8	11.6	9.43	6.00B	18
19	5.11B	3.84B	4.90B	13.5	20.6	82.6	48.8	31.2	15.4	11.6	9.26	5.90B	19
20	6.03B	4.42B	4.80B	14.4	21.4	78.2	46.8	28.2	14.8	11.5	9.24	5.70B	20
21	6.60B	4.88B	4.70B	14.5	24.2	76.3	42.2	25.4	14.5	11.2	7.99B	5.50B	21
22	7.70B	5.74B	4.70B	14.2	25.7	70.0	38.3	25.6	14.0	11.0	8.45B	5.40B	22
23	7.50B	6.31B	5.00B	14.5	24.3	70.9	36.1	29.6	14.0	11.0	8.08B	5.20B	23
24	7.40B	6.62B	5.30B	15.0	26.8	78.0	37.7	29.8	13.6	10.8	7.90B	5.00B	24
25	7.08B	6.81B	5.70B	16.0	50.7	79.8	43.1	28.0	13.4	10.6	7.40B	4.90B	25
26	7.30B	6.64B	6.30B	16.5	116	77.9	47.6	26.9	13.4	10.8	7.10B	4.80B	26
27	6.18B	6.34B	7.00B	16.3	146	72.5	44.7	24.6	13.3	10.8	6.60B	4.60B	27
28	6.07B	6.26B	7.60B	16.0	99.9	69.6	41.1	22.7	13.1	10.8	6.29B	4.50B	28
29	4.97B		8.50B	14.8	84.5	66.0	40.4	20.9	13.0	10.8	6.00B	4.30B	29
30	4.49B		10.0 B	13.8	90.8	59.8	38.4	19.7	13.0	10.9	5.80B	4.20B	30
31	4.23B		13.6 B		122		37.2	19.2		10.7		4.00B	31
TOTAL	211.69	132.34	210.59	400.37	1 182.2	2 893.8	1 639.2	889.1	466.9	370.5	267.48	180.18	TOTAL
MEAN	6.83	4.73	6.79	13.3	38.1	96.5	52.9	28.7	15.6	12.0	8.92	5.81	MEAN
MAX	8.59	6.81	13.6	16.5	146	274	83.3	39.2	19.4	13.7	11.0	7.60	MAX
MIN	4.23	3.30	4.70	9.65	13.6	59.8	36.1	19.2	13.0	10.6	5.80	4.00	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 24.2
MAXIMUM DAILY, 274 ON JUN 03
MINIMUM DAILY, 3.30B ON FEB 17
MAXIMUM INSTANTANEOUS,
341 AT 03:57 MST ON JUN 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 15 09 N
LONG 114 51 14 W
DRAINAGE AREA, 2 230 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	18 300	JUL	142 000
FEB	11 400	AUG	76 800
MAR	18 200	SEP	40 300
APR	34 600	OCT	32 000
MAY	102 000	NOV	23 100
JUN	250 000	DEC	15 600

TOTAL DISCHARGE, 764 000 dam³

COAL CREEK AT BOW CITY - STATION NO. 05BN014

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.002	0.055	0.289	0.118	0.203	0.080	---	---	1
2	---	---	---	---	0.001	0.032	0.200	0.167	0.211	0.153	---	---	2
3	---	---	---	---	0.001	0.027	0.219	0.208	0.241	0.218	---	---	3
4	---	---	---	---	0.001	0.064	0.258	0.167	0.268	0.162	---	---	4
5	---	---	---	---	0.430	0.062	0.234	0.146	0.273	0.111	---	---	5
6	---	---	---	---	0.457	0.028	0.241	0.186	0.114	0.173	---	---	6
7	---	---	---	---	0.589	0.017	0.230	0.185	0.037	0.310	---	---	7
8	---	---	---	---	0.414	0.026	0.276	0.297	0.025	0.364	---	---	8
9	---	---	---	---	0.138	0.084	0.398	0.403	0.034	0.365	---	---	9
10	---	---	---	---	0.145	0.086	0.382	0.538	0.032	0.475	---	---	10
11	---	---	---	---	0.291	0.081	0.533	0.775	0.016	0.391	---	---	11
12	---	---	---	---	0.287	0.070	0.488	0.771	0.011	0.277	---	---	12
13	---	---	---	---	0.286	0.095	0.478	0.875	0.027	0.227	---	---	13
14	---	---	---	---	0.285	0.103	0.503	0.988	0.098	0.043	---	---	14
15	---	---	---	---	0.259	0.131	0.489	0.795	0.095	0.023	---	---	15
16	---	---	---	---	0.122	0.168	0.499	0.975	0.089	0.015	---	---	16
17	---	---	---	---	0.071	0.198	0.328	0.525	0.062	0.012	---	---	17
18	---	---	---	---	0.051	0.250	0.294	0.171	0.025	0.008	---	---	18
19	---	---	---	---	0.023	0.361	0.444	0.128	0.014	0.006	---	---	19
20	---	---	---	---	0.018	0.167	0.470	0.122	0.009	0.005	---	---	20
21	---	---	---	---	0.032	0.189	0.418	0.139	0.014	0.005	---	---	21
22	---	---	---	---	0.018	0.202	0.431	0.158	0.012	0.004	---	---	22
23	---	---	---	---	0.013	0.274	0.410	0.164	0.007	0.004	---	---	23
24	---	---	---	---	0.017	0.211	0.220	0.248	0.005	0.004	---	---	24
25	---	---	---	---	0.069	0.345	0.316	0.253	0.004	0.004	---	---	25
26	---	---	---	---	0.132	0.260	0.381	0.232	0.004	0.003	---	---	26
27	---	---	---	---	0.277	0.179	0.456	0.303	0.005	0.002	---	---	27
28	---	---	---	---	0.261	0.203	0.255	0.266	0.049	0.002	---	---	28
29	---	---	---	---	0.187	0.314	0.134	0.189	0.062	0.002A	---	---	29
30	---		---	0.003A	0.274	0.442	0.093	0.180	0.074	0.002E	---	---	30
31	---		---		0.145		0.115	0.198		0.002E		---	31
TOTAL	---	---	---	---	5.296	4.724	10.482	10.874	2.120	3.452	---	---	TOTAL
MEAN	---	---	---	---	0.171	0.158	0.338	0.351	0.071	0.111	---	---	MEAN
MAX	---	---	---	---	0.589	0.442	0.533	0.988	0.273	0.475	---	---	MAX
MIN	---	---	---	---	0.001	0.017	0.093	0.118	0.004	0.002	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.201
MAXIMUM DAILY, 0.988 ON AUG 14
MINIMUM DAILY, 0.001 ON MAY 02
MAXIMUM INSTANTANEOUS,
1.30 AT 11:29 MST ON AUG 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 25 50 N
LONG 112 13 40 W
DRAINAGE AREA, 86.8 km²
A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	906
FEB	---	AUG	940
MAR	---	SEP	183
APR	---	OCT	298
MAY	458	NOV	---
JUN	408	DEC	---

TOTAL DISCHARGE, 3 190 dam³

COAL LAKE RESERVOIR NEAR WETASKIWIN - STATION NO. 05FA016

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	702.665	702.659	703.229	703.032	702.922	702.902	703.023	702.854	702.733	702.715	702.689	1
2	---	702.666	702.660	703.303	703.029	702.905	702.900	703.013	702.860	702.774	702.702	702.689	2
3	---	702.666	702.659	703.350	703.025	702.888	702.995	702.994	702.855	702.753	702.693	702.690	3
4	---	702.665	702.660	703.378	703.020	702.916	702.969	702.985	702.848	702.731	702.710	702.693	4
5	---	702.665	702.659	703.368	703.015	702.923	702.990	702.973	702.848	702.747	702.704	702.692	5
6	---	702.666	702.659	703.346	703.026	702.920	703.166	702.965	702.845	702.738	702.696	702.692	6
7	---	702.666	702.660	703.323	703.008	702.913	703.397	702.955	702.852	702.737	702.696	702.693	7
8	---	702.667	702.662	703.301	702.996	702.919	703.569	702.950	702.843	702.736	702.694	702.694	8
9	---	702.666	702.664	703.271	702.984	702.919	703.636	702.939	702.834	702.736	702.693	702.691	9
10	---	702.665	702.666	703.246	702.981	702.920	703.629	702.933	702.830	702.752	702.692	702.691	10
11	---	702.672	702.671	703.223	702.964	702.919	703.576	702.926	702.826	702.737	702.694	702.691	11
12	---	702.669	702.676	703.203	702.962	702.945	703.518	702.920	702.837	702.738	702.697	702.691	12
13	---	702.666	702.675	703.184	702.956	702.941	703.464	702.917	702.818	702.741	702.697	702.690	13
14	---	702.666	702.676	703.166	702.954	702.924	703.401	702.902	702.818	702.736	702.695	702.690	14
15	---	702.665	702.676	703.149	702.953	702.919	703.343	702.899	702.798	702.734	702.695	702.690	15
16	---	702.666	702.676	703.135	702.942	702.934	703.311	702.897	702.806	702.731	702.696	702.689	16
17	---	702.668	702.677	703.121	702.936	702.948	703.284	702.890	702.808	702.727	702.697	702.690	17
18	---	702.669	702.682	703.108	702.940	702.956	703.248	702.885	702.793	702.731	702.698	702.694	18
19	---	702.668	702.697	703.095	702.924	702.965	703.220	702.887	702.801	702.752	702.700	702.694	19
20	---	702.670	702.731	703.083	702.923	702.963	703.190	702.882	702.788	702.727	702.700	702.696	20
21	---	702.667	702.756	703.072	702.928	702.961	703.168	702.883	702.790	702.726	702.701	702.700	21
22	---	702.668	702.768	703.064	702.918	702.951	703.146	702.886	702.776	702.727	702.699	702.699	22
23	702.663	702.660	702.777	703.077	702.912	702.959	703.129	702.882	702.776	702.716	702.698	702.702	23
24	702.663	702.658	702.794	703.091	702.915	702.945	703.113	702.865	702.771	702.717	702.702	702.703	24
25	702.660	702.657	702.816	703.091	702.904	702.942	703.096	702.859	702.771	702.720	---	702.704	25
26	702.659	702.658	702.834	703.088	702.910	702.939	703.087	702.860	702.767	702.733	---	702.706	26
27	702.659	702.659	702.860	703.065	702.904	702.937	703.091	702.863	702.761	702.706	---	702.711	27
28	702.661	702.659	702.909	703.069	702.893	702.924	703.070	702.857	702.735	702.720	702.692	702.713	28
29	702.666		702.983	703.086	702.882	702.917	703.052	702.853	702.760	702.711	702.691	702.708	29
30	702.666		703.069	703.045	702.892	702.903	703.039	702.865	702.743	702.711	702.689	702.699	30
31	702.666		703.156		702.910		703.037	702.862		702.711		702.697	31
MEAN	---	702.665	702.747	703.178	702.953	702.931	703.217	702.912	702.807	702.732	---	702.696	MEAN
MAX	---	702.672	703.156	703.378	703.032	702.965	703.636	703.023	702.860	702.774	---	702.713	MAX
MIN	---	702.657	702.659	703.045	702.882	702.888	702.900	702.853	702.735	702.706	---	702.689	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 703.636 ON JUL 09

MAXIMUM INSTANTANEOUS,
703.646 AT 15:43 MST ON JUL 09

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 00 07 N
LONG 113 13 09 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1973

DRAINAGE AREA,
1 240 km²

COLD LAKE AT COLD LAKE - STATION NO. 06AF002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	534.747	534.740	---	---	534.863	534.996	534.987	535.000	534.897	534.819	534.717	534.628	1
2	534.746	534.741	---	---	534.867	534.984	535.009	535.002	534.897	534.827	534.713	534.624	2
3	534.746	534.741	---	---	534.871	534.974	535.112	534.984	534.894	534.823	534.703	534.622	3
4	534.745	534.741	---	---	534.877	534.976	535.029	534.982	534.883	534.813	534.699	534.622	4
5	534.747	534.741	---	---	534.879	534.972	535.021	534.981	534.894	534.820	534.684	534.622	5
6	534.747	534.745	---	534.772A	534.879	534.978	535.020	534.983	534.886	534.791	534.689	534.620	6
7	534.749	534.746	---	534.772E	534.891	534.972	535.022	534.974	534.885	534.787	534.687	534.623	7
8	534.752	534.747	---	534.773E	534.897	534.974	535.020	534.969	534.884	534.782	534.665	534.625	8
9	534.751	534.748A	534.757A	534.774E	534.902	534.977	535.020	534.964	534.872	534.780	534.665	534.627	9
10	534.744	---	---	534.776A	534.904	534.978	535.029	534.954	534.872	534.801	534.662	534.622	10
11	534.733	---	---	534.783	534.910	534.992	535.028	534.953	534.874	534.789	534.648	534.625	11
12	534.732	---	---	534.780	534.913	535.018	535.024	534.950	534.883	534.779	534.652	534.627	12
13	534.733	---	---	534.783	534.915	535.021	535.022	534.971	534.876	534.772	534.656	534.627	13
14	534.734	---	---	534.783	534.918	534.989	535.015	534.940	534.874	534.770	534.656	534.628	14
15	534.736	---	---	534.788	534.922	534.984	535.008	534.942	534.873	534.771	534.653	534.628	15
16	534.738	---	---	534.792	534.927	534.982	535.008	534.947	534.873	534.771	534.654	534.625	16
17	534.736	---	---	534.795	534.931	534.983	535.015	534.941	534.866	534.761	534.648	534.630	17
18	534.737	---	---	534.796	534.937	534.985	535.001	534.932	534.852	534.761	534.646	534.628	18
19	534.737	---	---	534.799	534.943	534.984	535.001	534.923	534.853	534.749	534.632	534.625	19
20	534.736	---	---	534.802	534.946	534.983	534.998	534.920	534.858	534.746	534.643	534.622	20
21	534.738	---	---	534.804	534.948	534.982	534.993	534.925	534.853	534.743	534.663	534.623	21
22	534.739	---	---	534.811	534.952	534.982	534.990	534.930	534.840	534.735	534.652	534.622	22
23	534.740	---	---	534.820	534.957	534.982	534.990	534.921	534.842	534.733	534.655	534.626	23
24	534.739	---	---	534.827	534.960	534.984	535.001	534.906	534.839	534.727	534.650	534.624	24
25	534.741	---	---	534.836	534.966	534.978	534.989	534.905	534.835	534.729	534.634	534.624	25
26	534.738	---	---	534.844	534.964	534.981	534.986	534.904	534.831	534.732	534.634	534.627	26
27	534.740	---	---	534.850	534.967	534.987	534.998	534.894	534.837	534.730	534.634	534.626	27
28	534.741	---	---	534.851	534.971	534.979	535.020	534.886	534.827	534.725	534.627	534.625	28
29	534.741		---	534.853	534.976	534.976	534.998	534.886	534.816	534.717	534.626	534.627	29
30	534.739		---	534.859	534.974	534.976	534.996	534.916	534.814	534.719	534.634A	534.629	30
31	534.739		---		534.974		534.997	534.938		534.714		534.629	31
MEAN	534.741	---	---	---	534.926	534.984	535.011	534.943	534.863	534.765	534.659	534.625	MEAN
MAX	534.752	---	---	---	534.976	535.021	535.112	535.002	534.897	534.827	534.717	534.630	MAX
MIN	534.732	---	---	---	534.863	534.972	534.986	534.886	534.814	534.714	534.626	534.620	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 535.112 ON JUL 03
MINIMUM DAILY, 534.620 ON DEC 06
MAXIMUM INSTANTANEOUS,
535.195 AT 08:59 MST ON JUL 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 28 15 N
LONG 110 10 55 W

A - MANUAL GAUGE
E - ESTIMATED

DRAINAGE AREA,
6 510 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

COLQUHOUN CREEK NEAR GRANDE PRAIRIE - STATION NO. 07GE006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.010B	0.190B	0.009	0.072	0.026	0.004	0.005	0	---	---	1
2	---	---	0.059B	0.199B	0.014	0.049	0.060	0.003	0.004	0	---	---	2
3	---	---	0.145B	0.193B	0.015	0.037	0.122	0.002	0.003	0	---	---	3
4	---	---	0.145B	0.193B	0.014	0.035	0.115	0.001	0.002	0	---	---	4
5	---	---	0.147B	0.165B	0.016	0.034	0.101	0.001	0.002	0	---	---	5
6	---	---	0.194B	0.128B	0.018	0.040	0.101	0	0.001	0	---	---	6
7	---	---	0.079B	0.094B	0.020	0.048	0.100	0	0.001	0	---	---	7
8	---	---	0.030B	0.070B	0.019	0.047	0.097	0	0.001	0	---	---	8
9	---	---	0.014B	0.050B	0.021	0.055	0.093	0	0.001	0	---	---	9
10	---	---	0.013B	0.034B	0.032	0.060	0.082	0	0.001	0.001	---	---	10
11	---	---	0.012B	0.026B	0.037	0.392	0.071	0	0.001	0.001	---	---	11
12	---	---	0.012B	0.022B	0.037	22.6 A	0.045	0	0	0.001	---	---	12
13	---	---	0.020B	0.018B	0.042	7.71	0.027	0	0	0.001	---	---	13
14	---	---	0.091B	0.016B	0.046	2.00	0.025	0	0	0.001	---	---	14
15	---	---	0.177B	0.013B	0.037	1.11	0.021	0	0	0.001	---	---	15
16	---	---	0.202B	0.012B	0.029	0.223	0.017	0	0	0.001	---	---	16
17	---	---	0.182B	0.010B	0.032	0.129	0.017	0	0.001	0.001	---	---	17
18	---	---	0.227B	0.014	0.033	0.086	0.010	0	0.001	0	---	---	18
19	---	---	0.336B	0.016	0.036	0.079	0.013	0	0.001	0	---	---	19
20	---	---	0.198B	0.019	0.037	0.073	0.007	0	0.001	0	---	---	20
21	---	---	0.160B	0.027	0.033	0.046	0.004	0	0.001	0 B	---	---	21
22	---	0.002B	0.102B	0.028	0.030	0.034	0.004	0	0	0 B	---	---	22
23	---	0.002B	0.059B	0.030	0.030	0.030	0.003	0	0	0 B	---	---	23
24	---	0.001B	0.029B	0.035	0.029	0.028	0.003	0	0	0 B	---	---	24
25	---	0.003B	0.019B	0.059	0.031	0.025	0.002	0	0	0 B	---	---	25
26	---	0.004B	0.017B	0.090	0.056	0.020	0.003	0	0	0 B	---	---	26
27	---	0.004B	0.055B	0.060	0.068	0.020	0.003	0	0	0 B	---	---	27
28	---	0.005B	0.112B	0.043	0.037	0.016	0.004	0	0	0 B	---	---	28
29	---		0.202B	0.033	0.027	0.014	0.005	0	0	0 B	---	---	29
30	---		0.250B	0.019	0.035	0.014	0.005	0	0	0 B	---	---	30
31	---		0.199B		0.067		0.004	0.003		0 B		---	31
TOTAL	---	---	3.497	1.906	0.987	35.126	1.190	0.014	0.027	0.008	---	---	TOTAL
MEAN	---	---	0.113	0.064	0.032	1.17	0.038	0.001	0.001	0	---	---	MEAN
MAX	---	---	0.336	0.199	0.068	22.6	0.122	0.004	0.005	0.001	---	---	MAX
MIN	---	---	0.010	0.010	0.009	0.014	0.002	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.175
MAXIMUM DAILY, 22.6A ON JUN 12
MINIMUM DAILY, 0 ON AUG 06
MAXIMUM INSTANTANEOUS,
31.8 AT 10:00 MST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 17 07 N
LONG 119 08 43 W

DRAINAGE AREA, 130 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	103
FEB	---	AUG	1.21
MAR	302	SEP	2.33
APR	165	OCT	0.691
MAY	85.3	NOV	---
JUN	3 030	DEC	---

TOTAL DISCHARGE, 3 690 dam³

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARKS.

COLUMBINE CREEK NEAR THE MOUTH - STATION NO. 06AA004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0 B	0.069E	0.002E	0.021	0	0.001	0.001	---	---	1
2	---	---	---	1.46 B	0.063E	0.002E	0.019	0.006	0.002	0.	---	---	2
3	---	---	---	2.91 B	0.056E	0.002E	0.064	0.014	0.001	0	---	---	3
4	---	---	---	4.39 B	0.050E	0.004	0.034	0.022	0	0	---	---	4
5	---	---	---	5.85 B	0.044E	0.010	0.041	0.020	0	0.001	---	---	5
6	---	---	---	3.43 B	0.038E	0.011	0.043	0.015	0	0.001	---	---	6
7	---	---	---	2.93 E	0.031E	0.012	0.045	0.009	0.001	0.001	---	---	7
8	---	---	---	2.43 E	0.025	0.011	0.028	0.003	0.002	0	---	---	8
9	---	---	---	1.93 E	0.030	0.012	0.012	0	0.004	0	---	---	9
10	---	---	---	1.43 E	0.030	0.012E	0.035	0	0.003	0.002	---	---	10
11	---	---	---	0.933E	0.030	0.018E	0.026	0	0.002	0.002	---	---	11
12	---	---	---	0.434A	0.030	0.010	0.021	0	0.016	0.002	---	---	12
13	---	---	---	0.362E	0.031	0.005	0.014	0	0.019	0.002	---	---	13
14	---	---	---	0.290E	0.030	0.004	0.006	0	0.016	0.003	---	---	14
15	---	---	---	0.217E	0.030	0.003	0	0	0.013	0.002	---	---	15
16	---	---	---	0.145E	0.030	0.002	0	0.005	0.011	0.001	---	---	16
17	---	---	---	0.073A	0.023	0.003E	0	0.009	0.010	0	---	---	17
18	---	---	---	0.072E	0.018	0.003E	0.001	0.017	0.008	0	---	---	18
19	---	---	---	0.071E	0.022	0.003E	0.002	0.018	0.008	0	---	---	19
20	---	---	---	0.070A	0.015	0.003	0.004	0.015	0.010	0	---	---	20
21	---	---	---	0.081E	0.011	0.013	0.003	0.012	0.010	0	---	---	21
22	---	---	---	0.092E	0.004	0.024	0.001	0.011	0.010	0	---	---	22
23	---	---	---	0.102E	0.002	0.035	0	0.010	0.010	0	---	---	23
24	---	---	---	0.113A	0.002E	0.039	0	0.008	0.009	0	---	---	24
25	---	---	---	0.107E	0.002E	0.038	0	0.007	0.008	0.001	---	---	25
26	---	---	---	0.100E	0.002E	0.034	0	0.006	0.006	0.003	---	---	26
27	---	---	---	0.094E	0.002E	0.036	0.002	0.006	0.004	0.005	---	---	27
28	---	---	---	0.088E	0.002E	0.030	0.006	0.005	0.003	0.005	---	---	28
29	---	---	0B	0.082E	0.002E	0.026	0.001	0.004	0.00[illegible]	0.003	---	---	29
30	---		0B	0.075E	0.002E	0.024	0	0.010	0.002	0.002E	---	---	30
31	---		0B		0.002E		0	0.011		0.002E		---	31
TOTAL	---	---	---	30.381	0.728	0.431	0.429	0.243	0.192	0.039	---	---	TOTAL
MEAN	---	---	---	1.01	0.024	0.014	0.014	0.008	0.006	0.001	---	---	MEAN
MAX	---	---	---	5.85	0.069	0.039	0.064	0.022	0.019	0.005	---	---	MAX
MIN	---	---	---	0	0.002	0.002	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 5.85B ON APR 05
MINIMUM DAILY, 0B ON MAR 29
MAXIMUM INSTANTANEOUS,
5.85 ON APR 05

DATA CONTRIBUTED BY -
ALBERTA DEPARTMENT OF THE ENVIRONMENT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 21 21 N
LONG 111 08 22 W
DRAINAGE AREA, 241 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	37.1
FEB	---	AUG	21.0
MAR	---	SEP	16.6
APR	2 620	OCT	3.37
MAY	62.9	NOV	---
JUN	37.2	DEC	---

REMARKS - PRIOR TO 1982 PUBLISHED UNDER 06AA901. 1990 PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARK

COOKING LAKE AT COOKING LAKE - STATION NO. 05EB012

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	736.067	736.048	735.999	736.076	736.037	735.947	735.916	---	1
2	---	---	---	---	736.082	736.038	736.019	736.061	---	735.932	---	---	2
3	---	---	---	---	736.067	736.048	736.090	736.066	736.032	735.932	---	---	3
4	---	---	---	---	736.082	736.038	736.070	736.061	736.027	735.952	---	---	4
5	---	---	---	736.043	---	736.053	736.078	736.061	736.027	735.942	---	---	5
6	---	---	---	---	736.077	736.058	736.140	736.051	736.032	735.947	---	---	6
7	---	---	---	---	736.087	736.038	736.135	736.046	736.032	735.952	---	---	7
8	---	---	---	---	736.082	736.048	736.135	736.046	---	735.947	---	---	8
9	---	---	---	---	736.082	---	736.130	736.041	736.022	735.952	---	---	9
10	---	---	---	---	736.097	736.058	736.130	736.036	736.022	735.942	---	---	10
11	---	---	---	---	736.077	736.069	736.140	736.041	736.017	735.947	---	---	11
12	---	---	---	---	736.077	736.069	736.135	736.031	735.992	735.942	---	---	12
13	---	---	735.981	---	736.072	736.059	736.125	736.036	736.002	735.942	---	---	13
14	---	---	---	---	736.057	736.049	736.110	736.041	736.007	735.942	---	---	14
15	---	---	---	---	736.077	736.044	736.105	736.021	736.002	735.937	---	---	15
16	---	---	---	---	736.077	736.059	736.090	736.031	735.962	735.942	---	---	16
17	---	---	---	---	---	736.049	736.085	---	735.972	735.942	---	---	17
18	---	---	---	---	736.087	---	736.085	736.037	735.987	735.942	---	---	18
19	---	---	---	---	---	736.039	---	736.032	735.982	735.902	---	---	19
20	---	---	---	---	736.078	736.029	736.090	736.032	---	735.922	---	---	20
21	---	---	---	---	736.078	736.034	---	736.032	735.987	735.942	---	---	21
22	---	---	---	---	736.068	736.029	---	736.022	735.982	735.902	---	---	22
23	---	---	---	---	736.078	736.034	---	736.032	735.982	735.932	---	---	23
24	---	---	---	---	736.098	736.019	---	736.022	735.972	735.937	---	---	24
25	---	---	---	---	736.078	736.014	---	736.022	735.962	735.937	---	---	25
26	---	---	---	---	---	736.014	736.101	---	735.972	---	---	---	26
27	---	---	---	---	736.058	736.029	---	736.022	735.962	735.942	---	---	27
28	---	---	---	---	736.048	736.029	---	736.012	735.962	735.922	---	---	28
29	---		---	---	736.078	736.009	---	735.999	---	735.932	---	---	29
30	---		---	---	736.068	735.999	736.081	735.972	735.952	735.932	---	---	30
31	---		---		736.048		736.081	736.032		735.932		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 736.140 ON JUL 06

TYPE OF GAUGE - MANUAL
LOCATION - LAT 53 24 59 N
LONG 113 07 15 W

A - MANUAL GAUGE
E - ESTIMATED

DRAINAGE AREA,
196 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

COYOTE CREEK NEAR CHERHILL - STATION NO. 07BB014

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.300B	0.306B	0.112	0.096	0.014	0.003	0.002	0	---	---	1
2	---	---	0.330B	0.251B	0.099	0.077	0.017	0.003	0.001	0	---	---	2
3	---	---	0.360B	0.206B	0.084	0.067	0.446	0.003	0.001	0	---	---	3
4	---	---	0.400B	0.141B	0.072	0.061	0.551	0.002	0.001	0	---	---	4
5	---	---	0.430B	0.143B	0.077	0.054	1.33	0.002	0.001	0.001	---	---	5
6	---	---	0.450B	0.103B	0.048	0.044	1.79	0.002	0.001	0.001	---	---	6
7	---	---	0.450B	0.126B	0.067	0.040	1.37	0.002	0	0.001	---	---	7
8	---	---	0.454B	0.095B	0.060	0.037	0.929	0.001	0	0.001	---	---	8
9	---	---	0.260B	0.115B	0.058	0.034	0.636	0.001	0	0.001	---	---	9
10	---	---	0.260B	0.116B	0.069	0.031	0.439	0.001	0	0.001	---	---	10
11	---	---	0.250B	0.164B	0.074	0.035	0.289	0.001	0	0.001	---	---	11
12	---	---	0.250B	0.236B	0.069	0.035	0.175	0.001	0.001	0.001	---	---	12
13	---	---	0.250B	0.225	0.077	0.037	0.094	0	0.001	0.001	---	---	13
14	---	---	0.240B	0.216	0.072	0.076	0.059	0	0	0.001	---	---	14
15	---	---	0.240B	0.229	0.091	0.131	0.041	0	0	0.001	---	---	15
16	---	---	0.230B	0.250	0.077	0.151	0.035	0.001	0	0.001	---	---	16
17	---	---	0.220B	0.257	0.048	0.084	0.029	0.001	0.002	0.001	---	---	17
18	---	---	0.220B	0.241	0.046	0.061	0.022	0.001	0.002	0.001	---	---	18
19	---	---	0.210B	0.210	0.050	0.045	0.020	0.001	0.001	0.001	---	---	19
20	---	---	0.200B	0.176	0.048	0.038	0.018	0	0.001	0.001	---	---	20
21	---	---	0.200B	0.140	0.056	0.031	0.016	0	0	0.001	---	---	21
22	---	---	0.180B	0.106	0.061	0.024	0.011	0.001	0	0.001	---	---	22
23	---	---	0.160B	0.092	0.062	0.020	0.009	0.001	0	0.001	---	---	23
24	---	---	0.150B	0.102	0.094	0.017	0.008	0	0	0.001	---	---	24
25	---	---	0.130B	0.111	0.093	0.015	0.007	0	0	0.001	---	---	25
26	---	---	0.083B	0.127	0.086	0.015	0.005	0.001	0	0.001	---	---	26
27	---	---	0.085B	0.144	0.087	0.015	0.005	0.001	0	0.001	---	---	27
28	---	---	0.086B	0.147	0.082	0.015	0.004	0	0	0.001	---	---	28
29	---	---	0.124B	0.134	0.108	0.015	0.004	0	0	0.001	---	---	29
30	---		0.190B	0.120	0.162	0.015	0.004	0.001	0	0.001A	---	---	30
31	---		0.235B		0.123		0.004	0.002		0.001E		---	31
TOTAL	---	---	7.627	5.029	2.412	1.416	8.381	0.033	0.015	0.027	---	---	TOTAL
MEAN	---	---	0.246	0.168	0.078	0.047	0.270	0.001	0.001	0.001	---	---	MEAN
MAX	---	---	0.454	0.306	0.162	0.151	1.79	0.003	0.002	0.001	---	---	MAX
MIN	---	---	0.083	0.092	0.046	0.015	0.004	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.102
MAXIMUM DAILY, 1.79 ON JUL 06
MINIMUM DAILY, 0 ON AUG 13
MAXIMUM INSTANTANEOUS,
1.89 AT 07:00 MST ON JUL 06

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 52 22 N
LONG 114 40 10 W
DRAINAGE AREA, 57.8 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	724
FEB	---	AUG	2.85
MAR	659	SEP	1.30
APR	435	OCT	2.33
MAY	208	NOV	---
JUN	122	DEC	---

TOTAL DISCHARGE, 2 150 dam³

CRESSDAY RESERVOIR NEAR CRESSDAY - STATION NO. 11AB097

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	---	---	---	---	---	---	1
2	---	---	---	---	963.898	---	---	---	---	---	---	---	2
3	---	---	---	---	---	---	---	---	---	---	---	---	3
4	---	---	---	---	---	---	---	---	---	---	---	---	4
5	---	---	---	963.982	---	---	963.819	---	---	---	---	---	5
6	---	---	963.322	---	---	963.976	---	---	963.497	---	---	---	6
7	---	---	963.400E	963.975E	963.877	963.970E	963.805E	963.640	963.490E	963.355E	---	---	7
8	---	---	---	---	---	---	---	---	---	---	---	---	8
9	---	---	---	---	---	---	---	---	---	963.352	---	---	9
10	---	---	---	---	---	---	---	---	---	---	---	---	10
11	---	---	---	---	---	---	---	---	---	---	---	---	11
12	---	---	---	---	---	---	---	---	---	---	---	---	12
13	---	---	---	---	---	---	---	---	---	---	---	---	13
14	---	---	---	---	---	---	---	---	---	---	---	---	14
15	---	---	---	---	---	---	---	---	---	---	---	---	15
16	---	---	964.157	---	---	---	---	963.567	---	---	---	---	16
17	---	---	964.140E	963.937	963.832	963.920E	963.742	963.565E	963.434	963.335E	---	---	17
18	---	---	---	---	---	963.913	---	---	---	963.332	---	---	18
19	---	---	---	---	---	---	---	---	---	---	---	---	19
20	---	---	---	---	---	---	---	---	---	---	---	---	20
21	---	---	---	---	---	---	---	---	---	---	---	---	21
22	---	---	---	---	---	---	---	---	---	---	---	---	22
23	---	962.529	---	---	---	---	---	---	---	---	---	---	23
24	---	---	---	---	---	---	---	---	---	---	---	---	24
25	---	962.530E	---	---	---	---	---	---	---	---	---	---	25
26	---	---	---	---	---	963.877	---	---	963.392	---	---	---	26
27	---	---	---	963.905E	---	963.865E	---	---	963.380E	---	---	---	27
28	---	962.710E	964.016	---	964.077	---	963.710E	963.560E	---	963.310E	---	---	28
29	---		---	---	---	---	---	963.545	---	---	---	---	29
30	---		---	963.900E	---	963.845E	---	---	963.370E	---	---	---	30
31	---		964.000E		964.045E		963.687	963.535E		963.303		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 14 02 N
LONG 110 15 40 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
54.6 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

CROWFOOT CREEK NEAR CLUNY - STATION NO. 05BM008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.29 B	0.421	0.161	2.44	0.784	1.07	1.90	1.07	0.032A	---	1
2	---	---	0.892B	0.404	0.124	2.59	0.952	1.12	1.73	1.24	---	---	2
3	---	---	1.30 B	0.363	0.124	2.37	1.12	1.12	1.63	1.40	---	---	3
4	---	---	1.86 B	0.290	0.111	2.26	1.27	1.28	1.56	1.38	---	---	4
5	---	---	2.57 B	0.255	0.101	2.25	1.09	1.40	1.39	1.17	---	---	5
6	---	---	3.84 B	0.211	0.061	2.17	0.968	1.55	1.30	0.977	---	---	6
7	---	---	3.19 B	0.177	0.081	2.06	1.16	1.53	1.37	0.806	---	---	7
8	---	---	2.16 B	0.128	0.088	1.99	1.31	1.40	1.22	0.639	---	---	8
9	---	---	1.79 B	0.119	0.140	1.98	1.53	1.37	1.12	0.489	---	---	9
10	---	---	0.842B	0.110B	0.432	1.89	1.59	1.32	1.22	0.331	---	---	10
11	---	---	0.463B	0.100B	0.727	1.74	1.52	1.32	1.29	0.297	---	---	11
12	---	---	0.274B	0.097	0.603	1.70	1.34	1.15	1.25	0.198	---	---	12
13	---	---	0.606B	0.088	0.776	1.86	1.22	1.06	1.22	0.143	---	---	13
14	---	---	0.755B	0.092	0.878	2.05	1.05	1.11	1.19	0.117	---	---	14
15	---	---	0.470B	0.092	0.874	2.34	1.15	1.14	1.15	0.098	---	---	15
16	---	---	0.171B	0.128	0.820	2.45	1.00	1.14	1.16	0.085	---	---	16
17	---	---	0.151B	0.119	0.887	2.34	0.897	1.20	1.18	0.081	---	---	17
18	---	---	0.279B	0.117	0.752	2.22	0.975	1.35	1.08	0.075	---	---	18
19	---	---	1.12 B	0.107	0.848	2.18	1.05	1.34	0.971	0.058	---	---	19
20	---	---	2.50 B	0.098	1.21	2.00	1.08	1.57	1.04	0.055	---	---	20
21	---	---	3.55 B	0.097	1.74	1.78	1.12	1.71	1.11	0.054	---	---	21
22	---	---	2.46 B	0.096	1.66	1.72	1.19	1.65	1.11	0.047	---	---	22
23	---	0.033B	1.82 B	0.088	1.39	1.64	1.07	1.68	0.902	0.046	---	---	23
24	---	0.065B	1.15 B	0.088	1.38	1.64	1.02	1.75	0.845	0.052A	---	---	24
25	---	0.016B	0.969B	0.082	1.47	1.56	0.986	1.81	0.967	0.054	---	---	25
26	---	0.006B	0.843B	0.072	1.41	1.26	0.963	1.85	0.980	0.040	---	---	26
27	---	0.005B	0.617	0.096	1.45	0.961	1.06	1.75	1.00	0.036	---	---	27
28	---	0.003B	0.463	0.128	1.67	0.926	1.23	1.78	0.809	0.041	---	---	28
29	---		0.577	0.101	1.63	0.868	1.26	1.86	0.765	0.034	---	---	29
30	---		0.424	0.174	1.60	0.807	1.28	1.86	0.866	0.034	---	---	30
31	---		0.338		2.03		1.24	1.87		0.033		---	31
TOTAL	---	---	39.734	4.558	27.306	56.042	35.475	45.13	35.225	11.180	---	---	TOTAL
MEAN	---	---	1.28	0.152	0.881	1.87	1.14	1.46	1.17	0.361	---	---	MEAN
MAX	---	---	3.84	0.421	2.03	2.59	1.59	1.87	1.90	1.40	---	---	MAX
MIN	---	---	0.151	0.072	0.061	0.807	0.784	1.06	0.765	0.033	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.04
MAXIMUM DAILY, 3.84B ON MAR 06
MINIMUM DAILY, 0.033 ON OCT 31
MAXIMUM INSTANTANEOUS
4.77B AT 12:59 MST ON MAR 06

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 50 00 N
LONG 112 45 40 W
DRAINAGE AREA, 1 360 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED SINCE 1914

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 070
FEB	---	AUG	3 900
MAR	3 430	SEP	3 040
APR	394	OCT	966
MAY	2 360	NOV	---
JUN	4 840	DEC	---

TOTAL DISCHARGE, 22 000 dam³

CROWSNEST RIVER AT FRANK - STATION NO. 05AA008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2.37B	1.40B	1.46B	2.13	7.31	32.7	11.7	7.13	3.22	1.91	3.11	3.16B	1
2	2.35B	1.50B	1.45B	2.41	7.53	29.3	11.5	6.83	3.18	1.99	3.04	2.98B	2
3	2.05B	1.62B	1.47B	3.09	7.72	25.9	11.3	6.45	3.14	1.92	2.80B	2.85B	3
4	2.14B	1.63B	1.54B	3.44	8.72	25.4	10.3	6.09	3.06	3.29	2.81	2.93B	4
5	2.22B	1.61B	1.54B	3.31	11.2	22.9	9.57	5.79	2.98	6.11	2.68	3.02B	5
6	2.18B	1.64B	1.52B	3.20	17.1	20.3	9.25	5.50	2.88	4.59	1.37B	3.02B	6
7	2.22B	1.61B	1.55B	3.22	17.0	19.2	9.44	5.22	2.76	3.95	2.58	3.04B	7
8	2.15B	1.61B	1.56B	3.34	14.9	18.1	9.06	4.99	2.69	3.60	2.62	3.00B	8
9	2.23B	1.51B	1.51B	3.16B	13.0	16.8	8.65	4.84	2.66	3.42	2.89	2.90B	9
10	2.42B	1.47B	1.56B	3.03B	12.0	17.1	8.44	4.69	2.61	3.60	6.00	2.77B	10
11	1.70B	1.39B	1.53	3.16B	11.1	18.1	8.25	4.57	2.53	3.36	8.19	2.65B	11
12	1.95B	1.33B	1.52	3.19	10.9	16.7	8.19	4.50	2.50	3.23	7.23	2.54B	12
13	2.14B	1.30B	1.49	3.15	10.6	14.7	8.07	4.28	2.77	3.07	6.39	2.51B	13
14	2.25B	1.30B	1.47	3.23	10.3	13.3	7.82	4.15	2.56	2.97	6.33	2.70B	14
15	2.04B	1.32B	1.45	3.59	10.1	12.5	7.57	4.07	2.45	2.87	5.50	2.82B	15
16	1.91B	1.34B	1.43	3.93	9.96	12.3	7.27	4.13	2.44	2.83	4.95	2.79B	16
17	1.68B	1.36B	1.45	4.16	9.87	12.7	6.96	3.93	2.36	2.78	4.62	2.69B	17
18	1.47B	1.38B	1.47	4.89	10.4	13.2	6.67	3.86	2.29	2.85	4.28	2.50B	18
19	1.49B	1.39B	1.55	6.27	10.8	13.8	6.52	4.00	2.25	2.70	3.94	2.25B	19
20	1.65B	1.37B	1.64	7.97	10.9	14.8	6.32	4.33	2.21	2.58	3.86	2.06B	20
21	1.80B	1.38B	1.66	9.38	10.9	15.1	5.98	4.28	2.18	2.61	3.25	2.12B	21
22	1.88B	1.43B	1.40B	10.2	10.7	14.8	5.71	4.08	2.15	2.50	3.05	2.18B	22
23	1.84B	1.50B	1.35B	10.4	11.7	15.2	5.60	3.98	2.10	2.44	4.17	2.30B	23
24	1.64B	1.54B	1.30B	10.3	16.3	15.4	5.74	3.87	2.04	2.48	3.95B	2.40B	24
25	1.76B	1.57B	1.40B	9.79	32.5	15.5	11.7	3.96	1.96	2.39	3.68B	2.43B	25
26	1.66B	1.49B	1.55B	9.26	31.1	15.1	13.3	3.95	1.93	2.93	3.57B	2.32B	26
27	1.61B	1.41B	1.57	8.79	27.9	14.4	11.2	3.75	1.93	2.77	3.35B	2.28B	27
28	1.50B	1.42B	1.57	8.44	26.0	13.5	9.83	3.55	1.95	2.81	3.41B	2.20B	28
29	1.44B		1.61	7.81	36.4	12.5	8.75	3.43	1.94	2.79	3.45B	2.18B	29
30	1.35B		1.74	7.41	40.4	11.8	7.99	3.39	1.88	2.78	3.28B	2.27B	30
31	1.30B		1.96		35.6		7.51	3.30		3.08		2.33B	31
TOTAL	58.59	40.83	47.27	165.65	500.91	513.1	266.16	140.89	73.60	93.20	121.17	80.19	TOTAL
MEAN	1.89	1.46	1.52	5.52	16.2	17.1	8.59	4.54	2.45	3.01	4.04	2.59	MEAN
MAX	2.42	1.64	1.96	10.4	40.4	32.7	13.3	7.13	3.22	6.11	8.19	3.16	MAX
MIN	1.30	1.30	1.35	2.13	7.31	11.8	5.60	3.30	1.88	1.91	1.37	2.06	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 5.76
MAXIMUM DAILY, 40.4 ON MAY 30
MINIMUM DAILY, 1.30B ON JAN 31
MAXIMUM INSTANTANEOUS
41.2 AT 02:15 MST ON MAY 30

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 35 49 N
LONG 114 24 33 W
DRAINAGE AREA, 404 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	5 060	JUL	23 000
FEB	3 530	AUG	12 200
MAR	4 080	SEP	6 360
APR	14 300	OCT	8 050
MAY	43 300	NOV	10 500
JUN	44 300	DEC	6 930

TOTAL DISCHARGE, 182 000 dam³

CUTBANK RIVER NEAR GRANDE PRAIRIE - STATION NO. 07GB001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.457B	2.61B	5.92	30.8	4.08	1.68	3.67	1.11	---	---	1
2	---	---	0.556B	2.86B	6.33	21.2	4.95	1.59	3.78	1.11	---	---	2
3	---	---	0.607B	2.90B	6.12	16.9	42.1	1.52	2.94	1.11	---	---	3
4	---	---	0.702B	2.56B	6.28	37.8	45.4	1.47	2.33	1.13	---	---	4
5	---	---	0.761B	2.20B	7.06	45.6	23.0	1.42	1.99	1.27	---	---	5
6	---	---	0.758B	2.10B	8.97	30.6	25.2	1.36	1.74	1.29	---	---	6
7	---	---	0.702B	1.75B	8.43	21.3	16.5	1.28	1.57	1.25	---	---	7
8	---	---	0.666B	1.64B	6.73	16.6	10.8	1.24	1.47	1.24	---	---	8
9	---	---	0.617B	1.31B	7.36	13.6	9.94	1.23	1.44	1.30	---	---	9
10	---	---	0.504B	1.14B	10.1	11.8	7.98	1.23	1.39	1.62	---	---	10
11	---	---	0.494B	1.17B	9.98	95.0	6.00	1.20	1.33	1.88	---	---	11
12	---	---	0.452B	1.60B	9.05	408 A	4.92	1.17	1.28	1.75	---	---	12
13	---	---	0.403B	2.57B	13.7	239	4.30	1.59	1.27	1.62	---	---	13
14	---	---	0.542B	3.53B	18.7	89.6	3.63	1.47	1.27	1.49	---	---	14
15	---	---	0.621B	4.23B	17.5	49.9	3.25	1.41	1.25	1.36B	---	---	15
16	---	---	0.523B	4.47B	15.2	33.0	2.98	1.47	1.32	1.33B	---	---	16
17	---	---	0.500B	4.18B	15.4	22.7	2.77	2.53	2.08	1.23B	---	---	17
18	---	---	0.540B	3.84	18.3	16.6	2.71	2.81	2.27	1.27B	---	---	18
19	---	---	0.714B	4.60	19.6	12.4	2.65	2.52	1.97	1.23B	---	---	19
20	---	---	0.739B	5.24	21.7	9.87	2.58	1.98	1.62	1.51B	---	---	20
21	---	0.388B	0.719B	5.49	18.6	8.06	2.47	1.65	1.48	1.23B	---	---	21
22	---	0.382B	0.585B	5.46	15.0	6.86	2.35	1.55	1.39	1.22B	---	---	22
23	---	0.388B	0.391B	5.71	13.1	5.81	2.27	1.81	1.32	1.36B	---	---	23
24	---	0.394B	0.364B	7.79	12.0	5.09	2.23	1.87	1.26	1.24B	---	---	24
25	---	0.390B	0.408B	10.5	18.6	4.65	2.23	1.79	1.18	1.38B	---	---	25
26	---	0.396B	0.450B	8.81	28.8	4.33	2.15	1.66	1.15	1.67B	---	---	26
27	---	0.398B	0.674B	6.21	21.5	4.07	2.08	1.52	1.14	1.72B	---	---	27
28	---	0.427B	0.952B	4.99	16.4	4.14	1.94	1.45	1.13	1.59B	---	---	28
29	---		1.33 B	4.12	13.7	4.37	1.82	1.37	1.13	1.55B	---	---	29
30	---		2.22 B	4.64	13.4	3.89	1.75	1.34	1.12	1.40B	---	---	30
31	---		2.55 B		30.1		1.72	2.08		1.32B		---	31
TOTAL	---	---	22.501	120.22	433.03	1 273.54	248.75	50.26	50.18	42.78	---	---	TOTAL
MEAN	---	---	0.726	4.01	14.0	42.5	8.02	1.62	1.67	1.38	---	---	MEAN
MAX	---	---	2.55	10.5	30.1	408	45.4	2.81	3.78	1.88	---	---	MAX
MIN	---	---	0.364	1.14	5.92	3.89	1.72	1.17	1.12	1.11	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 9.15
MAXIMUM DAILY, 408A ON JUN 12
MINIMUM DAILY, 0.364B ON MAR 24
MAXIMUM INSTANTANEOUS,
552 AT 08:00 MST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 30 57 N
LONG 118 57 47 W

DRAINAGE AREA, 844 km²

A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	21 500
FEB	---	AUG	4 340
MAR	1 940	SEP	4 340
APR	10 400	OCT	3 700
MAY	37 400	NOV	---
JUN	110 000	DEC	---

TOTAL DISCHARGE, 194 000 dam³

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARKS.

DAPP CREEK AT HIGHWAY NO. 44 - STATION NO. 07BC006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.009B	0.700B	1.26	0.654	0.003	0	0.216	0	0.034B	---	1
2	---	---	0.009B	0.846B	1.20	0.534	0.006	0	0.167	0	0.030B	---	2
3	---	---	0.009B	1.31 B	1.16	0.449	0.230	0	0.116	0	0.025B	---	3
4	---	---	0.009B	1.14 B	1.11	0.419	0.314	0	0.111	0	0.020B	---	4
5	---	---	0.009B	1.08 B	1.09	0.385	0.245	0	0.082	0.001	0.015B	---	5
6	---	---	0.009B	1.07 B	1.08	0.341	0.196	0	0.062	0.001	0.010B	---	6
7	---	---	0.009B	1.39 B	1.05	0.333	0.151	0	0.050	0.001	0.005B	---	7
8	---	---	0.009B	1.37 B	1.03	0.290	0.113	0	0.040	0.002	---	---	8
9	---	---	0.004B	1.15 B	0.947	0.268	0.077	0	0.037	0.002	---	---	9
10	---	---	0.016B	1.29 B	1.35	0.276	0.053	0	0.024	0.002	---	---	10
11	---	---	0.007B	1.22 B	1.54	0.303	0.040	0	0.016	0.005	---	---	11
12	---	---	0.037B	1.18 B	1.48	0.287	0.026	0	0.078	0.050	---	---	12
13	---	---	0.068B	1.21 B	1.44	0.270	0.022	0	0.184	0.004	---	---	13
14	---	---	0.063B	1.09 B	1.39	0.240	0.016	0	0.123	0.002	---	---	14
15	---	---	0.047B	1.14 B	1.36	0.182	0.011	0	0.072	0.001	---	---	15
16	---	---	0.055B	1.06 B	1.43	0.131	0.016	0	0.027	0	---	---	16
17	---	---	0.053B	1.17 B	1.28	0.128	0.022	0	0.011	0.029	---	---	17
18	---	---	0.045B	1.13	1.38	0.085	0.012	0	0.005	0.026	---	---	18
19	---	---	0.093B	1.09	1.20	0.069	0.005	0	0.006	0.026	---	---	19
20	---	---	0.081B	1.09	1.13	0.045	0.003	0	0.003	0.012	---	---	20
21	---	---	0.114B	1.09	1.09	0.027	0.002	0	0.003	0.001	---	---	21
22	---	---	0.007B	1.10	1.03	0.021	0.001	0	0.002	0	---	---	22
23	---	---	0.002B	1.10	1.02	0.003	0.001	0	0.003	0	---	---	23
24	---	---	0.027B	1.55	1.08	0.002	0.001	0	0.002	0	---	---	24
25	---	---	0.088B	1.55	1.05	0.001	0.001	0	0.002	0	---	---	25
26	---	---	0.124B	1.38	0.989	0.001	0	0	0.001	0	---	---	26
27	---	---	0.161B	1.31	0.881	0.002	0	0	0.001	0	---	---	27
28	---	---	0.298B	1.32	0.811	0.008	0	0	0.001	0	---	---	28
29	---	---	0.455B	1.28	0.799	0.007	0	0.140	0	0	---	---	29
30	---		0.632B	1.31	0.765	0.003	0	0.147	0	0	---	---	30
31	---		0.630B		0.877		0	0.248		0.025B		---	31
TOTAL	---	---	3.179	35.716	35.307	5.764	1.567	0.535	1.445	0.190	---	---	TOTAL
MEAN	---	---	0.103	1.19	1.14	0.192	0.051	0.017	0.048	0.006	---	---	MEAN
MAX	---	---	0.632	1.55	1.54	0.654	0.314	0.248	0.216	0.050	---	---	MAX
MIN	---	---	0.002	0.700	0.765	0.001	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.342
MAXIMUM DAILY, 1.55 ON APR 24
MINIMUM DAILY, 0 ON JUL 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 18 30 N
LONG 113 50 55 W

DRAINAGE AREA, 563 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	135
FEB	---	AUG	46.2
MAR	275	SEP	125
APR	3 090	OCT	16.4
MAY	3 050	NOV	---
JUN	498	DEC	---

TOTAL DISCHARGE, 7 240 dam³

DEADFISH INFLOW CANAL NEAR CESSFORD - STATION NO. 05CH012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0	0	0.891	0	0.656	0.549	0	0	---	---	1
2	---	---	0	0	0.890	0	0.634	0.533	0	0	---	---	2
3	---	---	0	0	1.04	0	0.572	0.521	0	0	---	---	3
4	---	---	0	0	1.04	0	0.387	0.498	0	0	---	---	4
5	---	---	0	0	0.943	0	0.640	0.496	0	0	---	---	5
6	---	---	0	0	0.852	0	0.711	0.511	0	0	---	---	6
7	---	---	0	0	0.806	0	0.732	0.537	0	0	---	---	7
8	---	---	0	0	0.874	0	0.644	0.535	0	0	---	---	8
9	---	---	0	0	0.894	0	0.288	0.612	0	0	---	---	9
10	---	---	0	0	0.864	0	0.179	0.606	0	0	---	---	10
11	---	---	0	0	0.816	0	0.128	0.589	0	0	---	---	11
12	---	---	0	0	0.749	0	0.095	0.605	0.006	0	---	---	12
13	---	---	0	0	0.489	0	0.075	0.587	0.031	0	---	---	13
14	---	---	0	0	0.480	0	0.316	0.571	0.036	0	---	---	14
15	---	---	0	0	0.088	0	0.579	0.576	0.190	0	---	---	15
16	---	---	0	0	0.020	0	0.592	0.537	0.301	0	---	---	16
17	---	---	0	0	0.010	0	0.602	0.576	0.336	0	---	---	17
18	---	---	0	0	0.005	0	0.607	0.566	0.579	0	---	---	18
19	---	---	0	0	0	0.001E	0.630	0.629	0.563	0	---	---	19
20	---	---	0	0	0	0.001E	0.651	0.927	0.171	0	---	---	20
21	---	---	0	0	0	0.001	0.592	1.04	0.023	0	---	---	21
22	---	---	0	0	0	0.085	0.560	1.03	0.001	0	---	---	22
23	---	---	0	0.415	0	0.339	0.530	0.920	0	0	---	---	23
24	---	---	0	1.24	0	0.575	0.490	0.893	0	0	---	---	24
25	---	---	0	0.970	0	0.659	0.482	0.888	0	0	---	---	25
26	---	---	0	0.916	0	0.689	0.498	0.766	0	0	---	---	26
27	---	---	0	0.952	0	0.703	0.559	0.322	0	0	---	---	27
28	---	0	0	0.993	0	0.643	0.533	0.046	0	0	---	---	28
29	---		0	0.969	0	0.607	0.538	0.001	0	0A	---	---	29
30	---		0	0.909	0	0.677	0.494	0	0	0A	---	---	30
31	---		0		0		0.492	0		0E		---	31
TOTAL	---	---	0	7.364	11.751	4.980	15.486	17.467	2.237	0	---	---	TOTAL
MEAN	---	---	0	0.246	0.379	0.166	0.500	0.564	0.075	0	---	---	MEAN
MAX	---	---	0	1.24	1.04	0.703	0.732	1.04	0.579	0	---	---	MAX
MIN	---	---	0	0	0	0	0.075	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.242
MAXIMUM DAILY, 1.24 ON APR 24
MINIMUM DAILY, 0 ON MAR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 00 53 N
LONG 111 48 32 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED SINCE 1983

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 340
FEB	---	AUG	1 510
MAR	0	SEP	193
APR	636	OCT	0
MAY	1 020	NOV	---
JUN	430	DEC	---

TOTAL DISCHARGE, 5 130 dam³

DEEP VALLEY CREEK NEAR VALLEYVIEW - STATION NO. 07GF008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.798B	2.08B	5.99	24.7 A	3.52	1.63	2.54	1.24	---	---	1
2	---	---	0.840B	2.29B	6.25	22.3 A	3.96	1.48	2.04	1.25	---	---	2
3	---	---	1.00 B	2.24B	6.50	20.0 A	9.96	1.39	1.67	1.23	---	---	3
4	---	---	0.864B	2.08B	6.75	20.0 A	12.1	1.32	1.48	1.30	---	---	4
5	---	---	0.768B	2.00B	6.94	24.2 A	8.67	1.23	1.35	1.44	---	---	5
6	---	---	0.762B	2.14B	7.37	22.1 A	19.4	1.18	1.33	1.38	---	---	6
7	---	---	0.786B	1.78B	6.82	18.9	15.8	1.14	1.26	1.34	---	---	7
8	---	---	0.822B	1.79B	5.91	15.5	12.3	1.09	1.21	1.40	---	---	8
9	---	---	0.864B	1.54B	7.27	13.2	10.0	1.04	1.16	1.50	---	---	9
10	---	---	0.888B	1.40B	7.64	11.8	7.66	0.997	1.12	1.70	---	---	10
11	---	---	0.834B	1.63B	7.00	27.4 A	5.98	0.972	1.07	1.74	---	---	11
12	---	---	0.762B	1.82B	6.77	151 A	5.17	0.938	1.13	1.65	---	---	12
13	---	---	0.936B	2.26B	7.90	125 A	4.52	0.937	1.14	1.58	---	---	13
14	---	---	1.25 B	2.76B	8.60	63.3 A	3.84	0.985	1.13	1.52	---	---	14
15	---	---	1.23 B	3.12B	8.33	43.3	3.37	1.03	1.08	1.38	---	---	15
16	---	---	1.00 B	2.86B	7.66	34.2	3.22	1.53	1.56	1.38	---	---	16
17	---	---	0.952B	3.48	8.03	26.7	3.07	2.31	5.02	1.34	---	---	17
18	---	---	1.23 B	5.07	10.8	21.4	3.05	1.97	4.01	1.33	---	---	18
19	---	---	1.63 B	7.67	10.9	17.3	2.79	1.62	2.96	1.37	---	---	19
20	---	---	1.32 B	8.27	10.4	14.0	2.48	1.38	2.31	1.24	---	---	20
21	---	---	1.09 B	8.17	10.9	11.6	2.09	1.21	1.87	1.37	---	---	21
22	---	---	1.16 B	7.84	12.2	9.57	1.80	1.19	1.70	1.33	---	---	22
23	---	---	0.960B	8.47	11.1	7.77	1.72	1.20	1.58	1.24	---	---	23
24	---	---	1.02 B	8.87	10.4	6.38	1.67	1.19	1.46	1.43	---	---	24
25	---	---	1.13 B	10.0	17.7	5.23	1.64	1.15	1.38	1.48	---	---	25
26	---	0.804B	1.33 B	9.05	24.2	4.69	1.59	1.17	1.33	1.58	---	---	26
27	---	0.768B	1.68 B	8.61	17.6	4.49	1.58	1.21	1.30	1.54	---	---	27
28	---	0.798B	1.66 B	8.63	13.3	3.98	1.52	1.09	1.28	1.54	---	---	28
29	---		1.71 B	8.17	11.6	3.77	1.44	1.00	1.27	1.42	---	---	29
30	---		2.08 B	4.94	11.0 A	3.57	1.39	1.18	1.24	1.48A	---	---	30
31	---		2.08 B		27.0 A		1.50	2.36		1.44B		---	31
TOTAL	---	---	35.436	133.02	328.83	786.35	158.80	40.119	50.98	44.16	---	---	TOTAL
MEAN	---	---	1.14	4.43	10.6	26.2	5.12	1.29	1.70	1.42	---	---	MEAN
MAX	---	---	2.08	10.0	27.0	161	19.4	2.36	5.02	1.74	---	---	MAX
MIN	---	---	0.762	1.40	5.91	3.57	1.39	0.937	1.07	1.23	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 6.44
MAXIMUM DAILY, 161A ON JUN 12
MINIMUM DAILY, 0.762B ON MAR 06
MAXIMUM INSTANTANEOUS,
182 AT 14:00 MST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 25 46 N
LONG 117 43 10 W
DRAINAGE AREA, 637 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	13 700
FEB	---	AUG	3 470
MAR	3 060	SEP	4 400
APR	11 500	OCT	3 820
MAY	28 400	NOV	---
JUN	67 900	DEC	---

TOTAL DISCHARGE, 136 000 dam³

REMARKS - PEAK DISCHARGE DERIVED FROM HIGH WATER MARKS.

DEER CREEK (MAIN STEM) NEAR SUNDRE - STATION NO. 05CA003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	0.013E	0.032E	0.416	0.050	0.037	0.021E	0.013	---	---
2	---	---	---	0.010E	0.027E	0.736	0.050	0.028	0.020E	0.012	---	---
3	---	---	---	0.007E	0.024E	0.389	0.065	0.035	0.023E	0.013	---	---
4	---	---	---	0.005E	0.022E	0.314	0.050	0.026	0.020E	0.013	---	---
5	---	---	---	0.006E	0.024E	0.263	0.046	0.023	0.019E	0.015	---	---
6	---	---	---	0.008E	0.029E	0.260	0.051	0.022	0.017E	0.014	---	---
7	---	---	---	0.011E	0.037E	0.232	0.069	0.019	0.016E	0.015	---	---
8	---	---	---	0.008E	0.052E	0.207	0.051	0.018	0.015E	0.016	---	---
9	---	---	---	0.004E	0.043E	0.182	0.044	0.017	0.015E	0.018	---	---
10	---	---	---	0.002E	0.038E	0.172	0.039	0.016	0.015E	0.017	---	---
11	---	---	---	0.004E	0.037E	0.158	0.034	0.015	0.017E	0.017	---	---
12	---	---	---	0.006E	0.038E	0.148	0.031	0.023	0.028E	0.017	---	---
13	---	---	---	0.010E	0.049E	0.163	0.028	0.023	0.024E	0.016	---	---
14	---	---	---	0.015E	0.045E	0.137	0.027	0.018	0.021E	0.014	---	---
15	---	---	---	0.012E	0.041E	0.117	0.027	0.016	0.020E	0.014	---	---
16	---	---	---	0.010E	0.046A	0.130	0.029	0.043	0.018E	0.014	---	---
17	---	---	---	0.013E	0.078	0.111	0.028	0.129	0.017A	0.015	---	---
18	---	---	---	0.021A	0.060	0.102A	0.034	0.072	0.016	0.015	---	---
19	---	---	---	0.028	0.055	0.088	0.042	0.062	0.015	0.015	---	---
20	---	---	---	0.026	0.048	0.087	0.031	0.055	0.014	0.016	---	---
21	---	---	---	0.020A	0.057	0.085	0.027	0.053	0.014	0.016	---	---
22	---	---	---	0.027E	0.068	0.080	0.026	0.054	0.013	0.014	---	---
23	---	---	---	0.024E	0.065	0.076	0.037	0.054	0.013	0.014	---	---
24	---	---	---	0.022E	0.125	0.076	0.037	0.053	0.012	0.012	---	---
25	---	---	---	0.021E	0.521	0.069	0.055	0.062	0.013	0.013	---	---
26	---	---	0.002A	0.020E	0.267	0.065	0.043	0.059	0.013	0.014	---	---
27	---	---	0.003E	0.019E	0.227	0.059	0.033	0.050	0.012	0.014	---	---
28	---	---	0.005E	0.018E	0.204	0.059	0.030	0.040	0.013	0.016	---	---
29	---	---	0.008E	0.018E	0.195	0.062	0.029	0.034A	0.012	0.015	---	---
30	---		0.010E	0.021E	0.211	0.054	0.026	0.027E	0.013	0.011A	---	---
31	---		0.008E		0.188		0.029	0.024E		0.010A		---
TOTAL	---	---	---	0.429	2.961	5.097	1.198	1.207	0.499	0.448	---	---
MEAN	---	---	---	0.014	0.096	0.170	0.039	0.039	0.017	0.015	---	---
MAX	---	---	---	0.028	0.521	0.736	0.069	0.129	0.028	0.018	---	---
MIN	---	---	---	0.002	0.022	0.054	0.026	0.015	0.012	0.010	---	---

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.055
MAXIMUM DAILY, 0.736 ON JUN 02
MINIMUM DAILY, 0.002E ON APR 10
MAXIMUM INSTANTANEOUS,
1.36E AT 01:20 MST ON JUN 02

SUMMARY FOR THE MONTHS APR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 39 25 N
LONG 115 08 00 W
DRAINAGE AREA, 5.44 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	104
FEB	---	AUG	104
MAR	---	SEP	43.1
APR	37.1	OCT	38.7
MAY	256	NOV	---
JUN	440	DEC	---

TOTAL DISCHARGE, 1 020 dam³

REMARKS - PEAK DISCHARGE WAS ESTIMATED. TOP PORTION OF RATING TABLE WAS ESTIMATED.

DEERLICK CREEK NEAR HINTON - STATION NO. 07AF004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	0.060B	0.427	1.18	0.158	0.105	0.130	0.058	0.042B	---
2	---	---	---	0.081B	0.479	1.06	0.182	0.091	0.112	0.055	0.042B	---
3	---	---	---	0.083B	0.551	1.44	0.690	0.085	0.100	0.053	0.042B	---
4	---	---	---	0.090B	0.644	2.11	0.547	0.077	0.092	0.060	0.042B	---
5	---	---	---	0.106B	0.714	1.44	0.375	0.071	0.085	0.058	0.042B	---
6	---	---	---	0.108B	0.753	1.11	1.63	0.065	0.079	0.059B	0.042B	---
7	---	---	---	0.106B	0.603	0.875	1.53	0.060	0.072	0.054B	0.042B	---
8	---	---	---	0.095B	0.558	0.728	1.01	0.059	0.069	0.056B	0.042B	---
9	---	---	---	0.090B	0.573	0.607	0.779	0.055	0.067	0.079B	---	---
10	---	---	---	0.085B	0.600	0.546	0.628	0.050	0.060	0.097B	---	---
11	---	---	---	0.095B	0.553	0.675	0.527	0.047	0.057	0.075B	---	---
12	---	---	---	0.114B	0.539	1.69	0.459	0.069	0.061	0.064B	---	---
13	---	---	---	0.168B	0.615	3.29	0.443	0.089	0.065	0.056B	---	---
14	---	---	---	0.222B	0.683	1.81	0.373	0.071	0.057	0.054B	---	---
15	---	---	---	0.276B	0.708	1.35	0.330	0.061	0.055	0.053B	---	---
16	---	---	---	0.330B	0.677	1.04	0.353	0.068	0.208	0.051B	---	---
17	---	---	---	0.384B	0.714	0.820	0.298	0.101	0.336	0.047B	---	---
18	---	---	---	0.438B	0.747	0.664	0.283	0.187	0.149	0.042B	---	---
19	---	---	---	0.492B	0.673	0.573	0.299	0.097	0.120	0.042B	---	---
20	---	---	---	0.546B	0.705	0.497	0.236	0.072	0.100	0.042B	---	---
21	---	---	---	0.600B	0.809	0.421	0.196	0.064	0.092	0.042B	---	---
22	---	---	0.028B	0.600B	0.719	0.368	0.167	0.082	0.085	0.042B	---	---
23	---	---	0.029B	0.570B	0.683	0.307	0.151	0.213	0.078	0.042B	---	---
24	---	---	0.029B	0.530B	0.681	0.270	0.152	0.222	0.073	0.042B	---	---
25	---	---	0.031B	0.504B	1.03	0.236	0.158	0.172	0.071	0.042B	---	---
26	---	---	0.032B	0.502B	1.00	0.197	0.132	0.322	0.070	0.042B	---	---
27	---	---	0.034B	0.406B	0.824	0.214	0.148	0.185	0.065	0.042B	---	---
28	---	---	0.043B	0.332B	0.716	0.216	0.147	0.135	0.064	0.042B	---	---
29	---	---	0.039B	0.292B	0.652	0.250	0.121	0.115	0.062	0.042B	---	---
30	---		0.050B	0.340B	1.04	0.181	0.106	0.177	0.061	0.042B	---	---
31	---		0.055B		1.43		0.104	0.170		0.042B	---	---
TOTAL	---	---	---	8.645	22.100	26.165	12.712	3.437	2.795	1.617	---	---
MEAN	---	---	---	0.288	0.713	0.872	0.410	0.111	0.093	0.052	---	---
MAX	---	---	---	0.600	1.43	3.29	1.63	0.322	0.336	0.097	---	---
MIN	---	---	---	0.060	0.427	0.181	0.104	0.047	0.055	0.042	---	---

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.362
MAXIMUM DAILY, 3.29 ON JUN 13
MINIMUM DAILY, 0.042B ON OCT 18
MAXIMUM INSTANTANEOUS,
4.67 AT 06:14 MST ON JUN 13

SUMMARY FOR THE MONTHS APR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 09 20 N
LONG 117 14 36 W
DRAINAGE AREA, 14 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 100
FEB	---	AUG	297
MAR	---	SEP	241
APR	747	OCT	140
MAY	1 910	NOV	---
JUN	2 260	DEC	---

TOTAL DISCHARGE, 6 700 dam³

DICKSON DAM TUNNEL OUTLET - STATION NO. 05CB007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	17.3	16.4	15.7	17.1	53.7	---	---	82.6	34.2	20.4	14.1	18.7	1
2	17.3	16.4	15.8	17.4	53.7	---	---	82.1	34.1	20.4	14.9	18.6	2
3	17.2	16.4	15.7	19.1	53.7	---	---	81.9	34.1	20.5	16.0	18.7	3
4	17.1	16.3	15.7	33.8	62.5	---	---	81.2	34.1	20.6	16.1	18.9	4
5	16.9	16.2	15.7	39.9	67.0	---	---	68.2	33.9	19.3	15.9	18.9	5
6	16.9	16.2	15.7	40.1	66.6	---	---	67.2	34.0	16.4	15.9	18.9	6
7	17.0	16.1	15.7	40.2	55.3	---	---	50.2	30.1	15.5	16.0	18.8	7
8	17.0	16.2	15.7	40.0	49.7	---	---	46.4	27.8	15.4	15.8	19.0	8
9	17.0	16.1	15.7	46.0	43.9	---	---	54.0	27.9	15.6	15.7	18.9	9
10	16.9	16.2	15.9	50.7	39.9	---	---	58.0	27.8	17.2	15.5	18.9	10
11	16.9	16.1	15.8	50.7	35.6	---	---	58.0	27.8	17.0	15.5	18.9	11
12	16.9	16.1	15.9	50.8	30.0	---	---	57.8	27.6	13.9	15.5	18.9	12
13	16.9	16.1	16.0	50.6	30.0	---	---	52.6	27.6	12.8	15.6	18.9	13
14	17.0	16.0	16.0	50.6	30.0	---	---	49.8	27.7	12.8	15.6	19.1	14
15	16.9	16.0	16.0	50.6	30.0	---	---	49.9	27.6	12.9	15.6	19.0	15
16	16.9	15.9	16.1	50.5	30.1	---	---	49.8	27.5	13.6	15.7	19.0	16
17	16.9	15.8	16.1	52.9	30.2	---	---	61.1	27.4	14.8	15.6	19.0	17
18	16.9	15.9	16.1	54.0	30.1	---	81.9	70.2	27.4	14.0	15.5	18.5	18
19	16.9	16.0	16.2	56.8	30.1	---	81.9	70.0	27.3	14.0	15.6	18.6	19
20	16.8	16.0	16.1	56.7	30.5	---	81.7	62.3	27.3	14.0	15.4	18.6	20
21	16.9	16.0	16.1	56.4	30.4	---	81.7	48.6	26.3	14.0	15.3	18.7	21
22	16.9	16.0	16.2	56.0	33.7	---	81.4	44.2	24.2	14.0	15.4	18.8	22
23	16.8	16.0	16.3	55.8	49.4	---	69.6	44.3	24.2	14.1	15.3	18.7	23
24	16.7	16.0	16.3	55.5	69.2	---	62.9	48.5	24.2	14.1	15.1	18.7	24
25	16.6	15.9	16.4	55.4	---	---	72.0	51.3	22.6	14.1	15.1	18.7	25
26	16.5	15.9	16.6	55.1	---	---	83.2	51.2	20.3	14.2	15.0	18.8	26
27	16.5	15.9	16.9	54.6	---	---	83.5	51.2	20.3	14.3	15.2	18.5	27
28	16.5	15.8	16.9	54.4	---	---	83.6	51.9	20.3	14.3	15.1	18.5	28
29	16.4		17.0	53.9	---	---	83.1	44.2	20.3	14.4	15.1	18.5	29
30	16.4		17.0	53.9	---	---	82.7	36.3	20.3	14.2	17.4	18.7	30
31	16.3		17.0		---		82.6	34.3		14.1		18.6	31
TOTAL	522.1	449.9	500.3	1 422.5	---	---	---	1 759.6	816.2	476.9	465.5	582.0	TOTAL
MEAN	16.8	16.1	16.1	47.4	---	---	---	56.8	27.2	15.4	15.5	18.8	MEAN
MAX	17.3	16.4	17.0	57.0	---	---	---	82.6	34.2	20.6	17.4	19.1	MAX
MIN	16.3	15.8	15.7	17.1	---	---	---	34.3	20.3	12.8	14.1	18.5	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 03 30 N
LONG 114 13 02 W
DRAINAGE AREA, 5 600 km²

REGULATED SINCE 1983

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	45 100	JUL	---
FEB	38 900	AUG	152 000
MAR	43 200	SEP	70 500
APR	123 000	OCT	41 200
MAY	---	NOV	40 200
JUN	---	DEC	50 300

REMARKS - FLOWS OVER SPILLWAY MAY 25 TO JULY 19.

DICKSON RESERVOIR NEAR DICKSON - STATION NO. 05CB006

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	946.665	945.222	943.768	943.355	940.714	945.788	945.964	946.130	946.000	946.033	946.553	946.020	1
2	946.626	945.165	943.719	943.611	940.564	945.919	946.053	946.120	946.015	946.028	946.566	945.981	2
3	946.595	945.104	943.674	943.885	940.489	946.824	946.187	946.097	946.023	946.025	946.565	945.923	3
4	946.555	945.046	943.627	944.089	940.432	945.979	946.332	946.039	946.024	946.021	946.551	945.874	4
5	946.514	944.992	943.581	944.124	940.277	944.929	946.339	945.996	946.020	946.019	946.544	945.832	5
6	946.475	944.935	943.535	944.098	940.098	944.553	946.233	945.951	946.009	946.037	946.537	945.805	6
7	946.431	944.890	943.492	944.053	939.966	944.491	946.233	945.948	945.998	946.073	946.524	945.771	7
8	946.392	944.841	943.461	944.011	939.914	944.478	946.432	946.004	946.006	946.099	946.513	945.743	8
9	946.355	944.799	943.433	943.929	939.848	944.439	946.489	946.044	946.017	946.119	946.506	945.726	9
10	946.320	944.752	943.408	943.769	939.831	944.473	946.385	946.038	946.026	946.139	946.496	945.706	10
11	946.278	944.707	943.391	943.579	939.829	944.539	946.215	946.026	946.034	946.157	946.486	945.676	11
12	946.231	944.660	943.374	943.392	939.902	944.694	946.050	946.003	946.043	946.181	946.475	945.634	12
13	946.179	944.614	943.337	943.223	940.006	944.653	946.060	945.976	946.057	946.217	946.476	945.577	13
14	946.125	944.557	943.303	943.091	940.131	944.570	946.083	945.986	946.073	946.251	946.482	945.519	14
15	946.073	944.505	943.269	942.995	940.274	944.418	946.083	945.995	946.084	946.280	946.483	945.457	15
16	946.036	944.448	943.231	942.906	940.410	944.209	946.046	946.005	946.083	946.302	946.483	945.400	16
17	945.993	944.389	943.201	942.798	940.522	944.314	946.023	946.026	946.079	946.318	946.481	945.335	17
18	945.939	944.332	943.167	942.650	940.538	944.455	946.021	946.005	946.078	946.338	946.477	945.270	18
19	945.883	944.272	943.136	942.497	940.778	944.437	946.015	945.961	946.070	946.358	946.466	945.195	19
20	945.826	944.217	943.128	942.348	940.933	944.340	946.034	945.928	946.053	946.374	946.447	945.119	20
21	945.767	944.160	943.138	942.202	941.115	944.367	946.034	945.924	946.036	946.389	946.419	945.047	21
22	945.716	944.108	943.146	942.054	941.326	944.535	945.990	945.953	946.028	946.400	946.379	944.974	22
23	945.670	944.060	943.130	941.919	941.470	944.815	945.935	946.001	946.024	946.413	946.344	944.898	23
24	945.634	944.007	943.106	941.767	941.477	945.058	945.940	946.030	946.018	946.425	946.300	944.829	24
25	945.592	943.960	943.071	941.625	941.597	945.262	945.976	946.027	946.012	946.442	946.257	944.759	25
26	945.550	943.913	943.035	941.487	943.233	945.446	946.057	946.015	946.015	946.457	946.211	944.697	26
27	945.499	943.868	943.005	941.355	945.159	945.539	946.161	946.011	946.024	946.475	946.171	944.642	27
28	945.453	943.818	942.986	941.221	945.676	945.642	946.208	945.998	946.031	946.489	946.128	944.588	28
29	945.402		942.981	941.065	945.792	945.757	946.218	945.967	946.030	946.503	946.095	944.531	29
30	945.350		943.025	940.894	945.886	945.875	946.204	945.967	946.030	946.525	946.063	944.478	30
31	945.286		943.151		945.955		946.165	945.982		946.538		944.418	31
MEAN	946.013	944.512	943.291	942.800	941.427	944.960	946.134	946.005	946.034	946.272	946.416	945.304	MEAN
MAX	946.665	945.222	943.768	944.124	945.955	946.824	946.489	946.130	946.084	946.538	946.566	946 020	MAX
MIN	945.286	943.818	942.981	940.894	939.829	944.209	945.935	945.924	945.998	946.019	946.063	944.418	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 944.933
MAXIMUM DAILY, 946.824 ON JUN 03
MINIMUM DAILY, 939.829 ON MAY 11
MAXIMUM INSTANTANEOUS,
946.949 AT 10:47 MST ON JUN 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 02 47 N
LONG 114 13 39 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1982

DRAINAGE AREA,
5 600 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

DOG RIVER NEAR FITZGERALD - STATION NO. 07NB008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.931B	0.660B	1.42B	1.15 B	3.66	4.41	2.48	1.23	0.413	0.441	0.760	1.26 B	1
2	0.943B	0.637B	1.39B	1.16 B	4.40B	4.23	2.33	1.19	0.381	0.463	0.777	1.07 B	2
3	0.946B	0.655B	1.39B	1.15 B	5.08B	4.07	2.22	1.19	0.340	0.438	0.800	1.05 B	3
4	0.944B	0.750B	1.40B	1.12 B	5.00B	3.88	2.16	1.19	0.318	0.454	0.826	1.04 B	4
5	0.942B	0.870B	1.41B	1.12 B	5.19	3.75	2.06	1.14	0.317	0.460	0.853	1.05 B	5
6	0.884B	1.07 B	1.39B	1.12 B	5.45	3.70	1.99	1.10	0.309	0.455	0.863	1.06 B	6
7	0.847B	1.13 B	1.43B	1.10 B	5.58	3.65	1.96	1.07	0.302	0.448	0.895	1.07 B	7
8	0.827B	1.11 B	1.33B	1.06 B	5.76	3.91	1.92	1.05	0.284	0.455	0.911	1.09 B	8
9	0.823B	1.08 B	1.31B	1.03 B	5.89	4.02	1.86	1.05	0.259	0.476	0.903	1.11 B	9
10	0.831B	0.850B	1.27B	1.07 B	6.06	3.86	1.77	1.04	0.175	0.453	0.861B	1.13 B	10
11	0.858B	0.510B	1.20B	1.10 B	6.34	3.74	1.72	1.03	0.045	0.480	0.859B	1.18 B	11
12	0.932B	0.440B	1.15B	1.11 B	6.59	3.68	1.65	1.01	0.017	0.521	0.976B	1.26 B	12
13	1.02 B	0.400B	1.14B	1.11 B	6.32	3.60	1.63	1.00	0.014	0.535	1.03 B	1.27 B	13
14	1.08 B	0.358B	1.13B	1.14 B	6.24	3.42	1.60	0.977	0.013	0.547	1.08 B	1.23 B	14
15	1.10 B	0.340B	1.12B	1.14 B	6.21	3.29	1.57	0.955	0.015	0.560	1.08 B	1.18 B	15
16	1.09 B	0.330B	1.10B	1.15 B	6.20	3.25	1.59	0.908	0.029	0.567	1.11 B	1.12 B	16
17	1.08 B	0.360B	1.09B	1.25 B	6.16	3.24	1.57	0.874	0.053	0:568	1.15 B	1.07 B	17
18	1.08 B	0.470B	1.09B	1.40 B	6.16	3.30	1.55	0.824	0.086	0.580	1.20 B	1.06 B	18
19	1.07 B	0.660B	1.08B	1.45 B	6.22	3.19	1.59	0.771	0.169	0.587	1.19 B	1.08 B	19
20	1.06 B	1.01 B	1.07B	1.48 B	6.05	3.06	1.61	0.720	0.282	0.619	1.20 B	1.17 B	20
21	1.05 B	0.943B	1.05B	1.63 B	5.85	3.01	1.51	0.632	0.388	0.636	1.24 B	1.34 B	21
22	1.04 B	0.902B	1.04B	1.36	5.81	2.97	1.46	0.567	0.407	0.649	1.24 B	1.04 B	22
23	1.03 B	0.830B	1.04B	0.991	5.72	2.88	1.43	0.596	0.399	0.654	1.22 B	0.903B	23
24	1.03 B	0.820B	1.05B	0.939	5.45	3.03	1.40	0.662	0.409	0.669	1.13 B	0.826B	24
25	1.02 B	0.850B	1.05B	1.03	5.25	2.82	1.39	0.766	0.410	0.677	0.931B	0.780B	25
26	1.02 B	0.990B	1.04B	1.23	5.31	2.72	1.35	0.792	0.441	0.695	1.54 B	0.730B	26
27	1.01 B	1.35 B	1.03B	1.49	5.30	2.64	1.32	0.749	0.494	0.694	1.59 B	0.700B	27
28	1.00 B	1.44 B	1.07B	1.74	5.08	2.60	1.30	0.654	0.517	0.705	1.50 B	0.650B	28
29	0.910B		1.11B	2.08	5.01	2.55	1.30	0.589	0.505	0.753	1.52 B	0.610B	29
30	0.820B		1.13B	2.62	4.61	2.50	1.30	0.508	0.432	0.743	1.53 B	0.580B	30
31	0.730B		1.14B		4.41		1.26	0.442		0.743		0.560B	31
TOTAL	29.948	21.815	36.66	38.520	172.36	100.97	51.85	27.276	8.223	17.725	32.765	31.269	TOTAL
MEAN	0.966	0.779	1.18	1.28	5.56	3.37	1.67	0.880	0.274	0.572	1.09	1.01	MEAN
MAX	1.10	1.44	1.43	2.62	6.59	4.41	2.48	1.23	0.517	0.753	1.59	1.34	MAX
MIN	0.730	0.330	1.03	0.939	3.66	2.50	1.26	0.442	0.013	0.438	0.760	0.560	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.56
MAXIMUM DAILY, 6.59 ON MAY 12
MINIMUM DAILY, 0.013 ON SEP 14

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 59 52 35 N
LONG 111 31 15 W
DRAINAGE AREA, 2 020 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	2 590	JUL	4 480
FEB	1 880	AUG	2 360
MAR	3 170	SEP	710
APR	3 330	OCT	1 530
MAY	14 900	NOV	2 830
JUN	8 720	DEC	2 700

TOTAL DISCHARGE, 49 200 dam³

DRAIN L-5 NEAR DIAMOND CITY - STATION NO. 05AD040

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0	0.018	0.003	0.030	0.039	0.049	---	---	1
2	---	---	---	---	0	0.036	0.002	0.027	0.030	0.015	---	---	2
3	---	---	---	---	0	0.048	0.025	0.033	0.025	0.036	---	---	3
4	---	---	---	---	0	0.048	0.050	0.033	0.015	0.036	---	---	4
5	---	---	---	---	0	0.043	0.016	0.035	0.023	0.055	---	---	5
6	---	---	---	---	0	0.041	0.008	0.035	0.043	0.083	---	---	6
7	---	---	---	---	0	0.040	0.008	0.036	0.031	0.063	---	---	7
8	---	---	---	---	0.024	0.039	0.011	0.024	0.055	0.020	---	---	8
9	---	---	---	---	0.032	0.038	0.039	0.012	0.046	0.022	---	---	9
10	---	---	---	---	0.033	0.040	0.071	0.024	0.043	0.018	---	---	10
11	---	---	---	---	0.033	0.039	0.053	0.041	0.018	0.052	---	---	11
12	---	---	---	---	0.032	0.037	0.014	0.043	0.023	0.062	---	---	12
13	---	---	---	---	0.031	0.038	0.044	0.051	0.036	0.080	---	---	13
14	---	---	---	---	0.025	0.044	0.033	0.043	0.039	0.061	---	---	14
15	---	---	---	---	0.013	0.049	0.034	0.021	0.059	0.059	---	---	15
16	---	---	---	---	0.002	0.024	0.029	0.019	0.033	0.076	---	---	16
17	---	---	---	---	0.009	0.025	0.032	0.031	0.023	0.072	---	---	17
18	---	---	---	0A	0.018	0.021	0.054	0.067	0.035	0.075	---	---	18
19	---	---	---	0	0.016	0.021	0.085	0.093	0.018	0.072	---	---	19
20	---	---	---	0	0.004	0.022	0.064	0.046	0.024	0.073	---	---	20
21	---	---	---	0	0.009	0.040	0.024	0.004	0.019	0.059	---	---	21
22	---	---	---	0	0.049	0.049	0.019	0.008	0.008	0.020	---	---	22
23	---	---	---	0	0.039	0.017	0.020	0.039	0.019	0.079	---	---	23
24	---	---	---	0	0.087	0.002	0.037	0.028	0.036	0.120	---	---	24
25	---	---	---	0	0.098	0.005	0.043	0.026	0.042	0.114	---	---	25
26	---	---	---	0	0.091	0.014	0.043	0.021	0.048	0.064	---	---	26
27	---	---	---	0	0.087	0.020	0.024	0.046	0.023	0.005	---	---	27
28	---	---	---	0	0.077	0.015	0.047	0.066	0.013	0.003	---	---	28
29	---	---	---	0	0.075	0.003	0.046	0.057	0.013	0.003	---	---	29
30	---		---	0	0.041	0.002	0.040	0.036	0.041	0.003	---	---	30
31	---		---		0.020		0.036	0.048		0 A		---	31
TOTAL	---	---	---	---	0.943	0.878	1.054	1.123	0.920	1.549	---	---	TOTAL
MEAN	---	---	---	---	0.030	0.029	0.034	0.036	0.031	0.050	---	---	MEAN
MAX	---	---	---	---	0.098	0.049	0.085	0.093	0.059	0.120	---	---	MAX
MIN	---	---	---	---	0	0.002	0.002	0.004	0.008	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.035
MAXIMUM DAILY, 0.120 ON OCT 24
MINIMUM DAILY, 0 ON MAY 01

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 47 20 N
LONG 112 51 20 W

A - MANUAL GAUGE

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	91.1
FEB	---	AUG	97.0
MAR	---	SEP	79.5
APR	---	OCT	134
MAY	81.5	NOV	---
JUN	75.9	DEC	---

TOTAL DISCHARGE, 559 dam³

DRAIN S-10 NEAR BOW ISLAND - STATION NO. 05AJ003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.012	0.045	0.401	0.414	0.242	0.324	---	---	1
2	---	---	---	---	0.012	0.083	0.445	0.467	0.231	0.274	---	---	2
3	---	---	---	---	0.011	0.123	0.716	0.456	0.341	0.329	---	---	3
4	---	---	---	---	0.009	0.099	0.688	0.342	0.297	0.199	---	---	4
5	---	---	---	---	0.007	0.123	0.526	0.376	0.280	0.163	---	---	5
6	---	---	---	---	0.006	0.073	0.482	0.387	0.346	0.196	---	---	6
7	---	---	---	---	0.005	0.095	0.700	0.305	0.296	0.243	---	---	7
8	---	---	---	---	0.005	0.194	0.805	0.271	0.309	0.191	---	---	8
9	---	---	---	---	0.006	0.177	0.813	0.414	0.395	0.216	---	---	9
10	---	---	---	---	0.006	0.237	0.697	0.532	0.316	0.096	---	---	10
11	---	---	---	---	0.008	0.275	0.705	0.663	0.332	0.039	---	---	11
12	---	---	---	---	0.012	0.342	0.658	0.659	0.283	0.014	---	---	12
13	---	---	---	---	0.027	0.353	0.854	0.637	0.331	0.024	---	---	13
14	---	---	---	---	0.018	0.557	0.660	0.680	0.351	0.017	---	---	14
15	---	---	---	---	0.070	0.291	0.835	0.462	0.436	0.015	---	---	15
16	---	---	---	---	0.054	0.295	0.773	0.372	0.321	0.015	---	---	16
17	---	---	---	---	0.046	0.333	0.602	0.464	0.473	0.016	---	---	17
18	---	---	---	---	0.094	0.172	0.598	0.462	0.288	0.014	---	---	18
19	---	---	---	---	0.311	0.168	0.937	0.471	0.295	0.011	---	---	19
20	---	---	---	---	0.253	0.422	0.688	0.396	0.293	0.012	---	---	20
21	---	---	---	---	0.230	0.477	0.551	0.337	0.272	0.012	---	---	21
22	---	---	---	---	0.257	0.316	0.626	0.293	0.309	0.010	---	---	22
23	---	---	---	---	0.179	0.259	0.601	0.288	0.326	0.011	---	---	23
24	---	---	---	---	0.238	0.357	0.538	0.126	0.257	0.009	---	---	24
25	---	---	---	0.006A	0.477	0.459	0.739	0.105	0.261	0.009	---	---	25
26	---	---	---	0.006	0.171	0.335	0.771	0.252	0.228	0.008	---	---	26
27	---	---	---	0.008	0.111	0.380	0.447	0.320	0.187	0.007	---	---	27
28	---	---	---	0.008	0.108	0.299	0.406	0.284	0.201	0.008	---	---	28
29	---	---	---	0.009	0.157	0.258	0.400	0.213	0.206	0.008	---	---	29
30	---		---	0.010	0.190	0.390	0.320	0.244	0.339	0.008	---	---	30
31	---		---		0.078		0.296	0.299		0.007A		---	31
TOTAL	---	---	---	---	3.168	7.987	19.278	11.991	9.042	2.507	---	---	TOTAL
MEAN	---	---	---	---	0.102	0.266	0.622	0.387	0.301	0.081	---	---	MEAN
MAX	---	---	---	---	0.477	0.557	0.937	0.680	0.473	0.329	---	---	MAX
MIN	---	---	---	---	0.005	0.045	0.296	0.105	0.187	0.007	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.293
MAXIMUM DAILY, 0.937 ON JUL 19
MINIMUM DAILY, 0.005 ON MAY 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 55 40 N
LONG 111 24 50 W

A - MANUAL GAUGE

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 670
FEB	---	AUG	1 040
MAR	---	SEP	781
APR	---	OCT	217
MAY	274	NOV	---
JUN	690	DEC	---

TOTAL DISCHARGE, 4 670 dam³

DRAIN S-6 NEAR BOW ISLAND - STATION NO. 05AJ004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.002	0.350E	0.010	0.112	0.105	0.237	---	---	1
2	---	---	---	---	0.002	0.232E	0.006	0.133	0.087	0.178	---	---	2
3	---	---	---	---	0.002	0.178E	0.012	0.127	0.085	0.195	---	---	3
4	---	---	---	---	0.002	0.161E	0.007	0.077	0.083	0.178	---	---	4
5	---	---	---	---	0.002	0.132A	0.006	0.156	0.135	0.183	---	---	5
6	---	---	---	---	0.002	0.112	0.069	0.171	0.131	0.214	---	---	6
7	---	---	---	---	0.002	0.111	0.112	0.193	0.108	0.218	---	---	7
8	---	---	---	---	0.002	0.135	0.107	0.108	0.066	0.193	---	---	8
9	---	---	---	---	0.002	0.139	0.049	0.138	0.085	0.118A	---	---	9
10	---	---	---	---	0.002	0.127	0.015E	0.082	0.178	0.088A	---	---	10
11	---	---	---	---	0.002	0.101	0.008E	0.073	0.188	0.190	---	---	11
12	---	---	---	---	0.002	0.055	0.004A	0.086	0.101	0.205	---	---	12
13	---	---	---	---	0.002	0.074	0.006	0.108	0.100	0.192	---	---	13
14	---	---	---	---	0.002	0.101	0.008	0.114	0.117	0.135	---	---	14
15	---	---	---	---	0.003	0.163	0.008	0.081	0.171	0.053	---	---	15
16	---	---	---	---	0.003	0.203	0.068	0.080	0.186	0.036	---	---	16
17	---	---	---	---	0.004	0.159	0.077	0.153	0.136	0.033	---	---	17
18	---	---	---	---	0.004	0.196	0.152	0.165	0.092	0.035	---	---	18
19	---	---	---	---	0.004	0.154	0.271	0.164	0.134	0.033	---	---	19
20	---	---	---	---	0.004	0.150	0.252	0.163	0.149	0.031	---	---	20
21	---	---	---	---	0.004	0.126	0.171	0.165	0.167	0.029	---	---	21
22	---	---	---	---	0.132	0.106	0.160	0.158	0.073A	0.028	---	---	22
23	---	---	---	---	0.320	0.094	0.100A	0.108	0.110	0.025	---	---	23
24	---	---	---	---	0.516	0.026	0.188	0.102	0.123	0.023	---	---	24
25	---	---	---	0.002A	0.529	0.079	0.177	0.103	0.101	0.022	---	---	25
26	---	---	---	0.002	0.443	0.072	0.117	0.105	0.141	0.021	---	---	26
27	---	---	---	0.003	0.392	0.051	0.145	0.128	0.182	0.020	---	---	27
28	---	---	---	0.002	0.399A	0.058	0.179	0.121	0.165	0.020	---	---	28
29	---	---	---	0.003	0.422E	0.084	0.184	0.112	0.244	0.019	---	---	29
30	---		---	0.002	0.448E	0.015	0.154	0.103	0.265	0.017	---	---	30
31	---		---		0.348E		0.174	0.107		0.017A		---	31
TOTAL	---	---	---	---	4.003	3.744	2.996	3.796	4.008	2.986	---	---	TOTAL
MEAN	---	---	---	---	0.129	0.125	0.097	0.123	0.134	0.096	---	---	MEAN
MAX	---	---	---	---	0.529	0.350	0.271	0.193	0.265	0.237	---	---	MAX
MIN	---	---	---	---	0.002	0.015	0.004	0.073	0.066	0.017	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.117
MAXIMUM DAILY, 0.529 ON MAY 25
MINIMUM DAILY, 0.002 ON MAY 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 54 09 N
LONG 111 28 36 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	259
FEB	---	AUG	328
MAR	---	SEP	346
APR	---	OCT	258
MAY	346	NOV	---
JUN	323	DEC	---

TOTAL DISCHARGE, 1 860 dam³

DRAIN T-1 NEAR TABER - STATION NO. 05AG027

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0	0.062	0.129	0.242	0.074	0.245	---	---	1
2	---	---	---	---	0	0.065	0.102	0.202	0.067	0.271	---	---	2
3	---	---	---	---	0	0.074	0.125	0.216	0.085	0.317	---	---	3
4	---	---	---	---	0	0.073	0.147	0.221	0.104	0.368	---	---	4
5	---	---	---	---	0	0.078	0.162	0.230	0.108	0.406	---	---	5
6	---	---	---	---	0	0.047	0.245	0.207	0.110	0.401	---	---	6
7	---	---	---	---	0	0.032	0.134	0.146	0.080	0.363	---	---	7
8	---	---	---	---	0.020	0.028	0.202	0.174	0.045	0.344	---	---	8
9	---	---	---	---	0.088	0.057	0.287	0.136	0.076	0.345	---	---	9
10	---	---	---	---	0.082	0.086	0.193	0.241	0.126	0.357	---	---	10
11	---	---	---	---	0.075	0.125	0.154	0.235	0.139	0.467	---	---	11
12	---	---	---	---	0.074	0.213	0.144	0.245	0.151	0.457	---	---	12
13	---	---	---	---	0.087	0.197	0.203	0.216	0.180	0.096	---	---	13
14	---	---	---	---	0.072	0.103	0.164	0.209	0.152	0.034A	---	---	14
15	---	---	---	---	0.049	0.024	0.189	0.188	0.162	0.004E	---	---	15
16	---	---	---	---	0.061	0.047	0.193	0.204	0.134	0.002E	---	---	16
17	---	---	---	---	0.053	0.082	0.167	0.223	0.113	0.002E	---	---	17
18	---	---	---	---	0.112	0.115	0.186	0.192	0.145	0.002E	---	---	18
19	---	---	---	0.003A	0.113	0.105	0.258	0.161	0.127	0.002E	---	---	19
20	---	---	---	0	0.173	0.164	0.369	0.154	0.081	0.002E	---	---	20
21	---	---	---	0	0.152	0.200	0.370	0.130	0.090	0.001E	---	---	21
22	---	---	---	0	0.102	0.136	0.355	0.104	0.147	0.001E	---	---	22
23	---	---	---	0	0.084	0.132	0.375	0.109	0.166	0.001E	---	---	23
24	---	---	---	0	0.093	0.091	0.281	0.114	0.160	0.001E	---	---	24
25	---	---	---	0	0.094	0.072	0.178	0.075	0.203	0.001E	---	---	25
26	---	---	---	0.001	0.072	0.115	0.220	0.075	0.193	0.001E	---	---	26
27	---	---	---	0.002	0.067	0.165	0.198	0.070	0.104	0.001E	---	---	27
28	---	---	---	0.001	0.071	0.179	0.249	0.044	0.092	0.001E	---	---	28
29	---	---	---	0.001	0.074	0.201	0.255	0.025	0.120	0.001E	---	---	29
30	---		---	0	0.060	0.177	0.236	0.050	0.126	0.001E	---	---	30
31	---		---		0.059		0.262	0.065		0.001A		---	31
TOTAL	---	---	---	---	1.987	3.245	6.732	4.903	3.660	4.496	---	---	TOTAL
MEAN	---	---	---	---	0.064	0.108	0.217	0.158	0.122	0.145	---	---	MEAN
MAX	---	---	---	---	0.173	0.213	0.375	0.245	0.203	0.467	---	---	MAX
MIN	---	---	---	---	0	0.024	0.102	0.025	0.045	0.001	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.136
MAXIMUM DAILY, 0.467 ON OCT 11
MINIMUM DAILY, 0 ON MAY 01

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 48 10 N
LONG 112 13 52 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	582
FEB	---	AUG	424
MAR	---	SEP	316
APR	---	OCT	388
MAY	172	NOV	---
JUN	280	DEC	---

TOTAL DISCHARGE, 2 160 dam³

DRIEDMEAT CREEK NEAR THE MOUTH - STATION NO. 05FA018

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.029B	5.13 B	0.152	0.029	0.059	0.042	0.009	0.024	---	---	1
2	---	---	0.029B	4.93 B	0.083	0.044	0.052	0.038	0.010	0.022	---	---	2
3	---	---	0.029B	4.04	0.361	0.045	0.147	0.043	0.008	0.021	---	---	3
4	---	---	0.030B	3.12	0.494	0.036	0.111	0.039	0.007	0.020	---	---	4
5	---	---	0.030B	2.50	0.152	0.036	0.128	0.033	0.009	0.021	---	---	5
6	---	---	0.031B	1.76	0.006	0.039	0.137	0.040	0.009	0.020	---	---	6
7	---	---	0.032B	1.99	0.004	0.044	0.159	0.036	0.011	0.023	---	---	7
8	---	---	0.033B	1.89	0.007	0.053	0.221	0.040	0.010	0.024	---	---	8
9	---	---	0.036B	1.70	0.002	0.036	0.269	0.037	0.010	0.024	---	---	9
10	---	---	0.037B	1.40	0.002	0.027	0.314	0.029	0.010	0.021	---	---	10
11	---	---	0.037B	1.04	0.003	0.029	0.305	0.028	0.010	0.023	---	---	11
12	---	---	0.037B	0.503	0.003	0.041	0.352	0.034	0.010	0.024	---	---	12
13	---	---	0.038B	0.346	0.002	0.046	0.491	0.024	0.010	0.023	---	---	13
14	---	---	0.040B	0.697	0.011	0.061	0.476	0.023	0.011	0.023	---	---	14
15	---	---	0.042B	0.859	0.013	0.041	0.411	0.021	0.010	0.022	---	---	15
16	---	---	0.050B	0.567	0.014	0.034	0.372	0.023	0.011	0.023	---	---	16
17	---	---	0.051B	0.324	0.015	0.026	0.288	0.026	0.010	0.027	---	---	17
18	---	---	0.071B	0.093	0.011	0.024	0.217	0.025	0.010	0.036	---	---	18
19	---	---	0.096B	0.327	0.009	0.030	0.174	0.024	0.011	0.034	---	---	19
20	---	---	0.120B	0.643	0.004	0.037	0.142	0.022	0.014	0.024	---	---	20
21	---	---	0.067B	0.658	0.012	0.041	0.120	0.019	0.015	0.019	---	---	21
22	---	---	0.060B	0.618	0.060	0.033	0.089	0.016	0.014	0.019	---	---	22
23	---	---	0.050B	0.595	0.083	0.031	0.082	0.015	0.015	0.020	---	---	23
24	---	---	0.060B	0.520	0.116	0.030	0.073	0.012	0.016	0.017	---	---	24
25	---	---	0.075B	0.421	0.333	0.035	0.070	0.011	0.017	0.016	---	---	25
26	---	0.026B	0.100B	0.298	0.359	0.035	0.062	0.008	0.019	0.016	---	---	26
27	---	0.028B	0.146B	0.217	0.269	0.083	0.057	0.007	0.018	0.014	---	---	27
28	---	0.030B	0.980B	0.143	0.160	0.101	0.053	0.006	0.019	0.014	---	---	28
29	---		3.73 B	0.135	0.099	0.088	0.045	0.006	0.019	0.016	---	---	29
30	---		5.57 B	0.140	0.168	0.074	0.040	0.004	0.019	0.018	---	---	30
31	---		5.76 B		0.276		0.043	0.006		0.030A		---	31
TOTAL	---	---	17.496	37.601	3.283	1.309	5.559	0.737	0.371	0.678	---	---	TOTAL
MEAN	---	---	0.564	1.25	0.106	0.044	0.179	0.024	0.012	0.022	---	---	MEAN
MAX	---	---	5.76	5.13	0.494	0.101	0.491	0.043	0.019	0.036	---	---	MAX
MIN	---	---	0.029	0.093	0.002	0.024	0.040	0.004	0.007	0.014	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.274
MAXIMUM DAILY, 5.76B ON MAR 31
MINIMUM DAILY, 0.002 ON MAY 09

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 52 53 N
LONG 112 38 20 W

DRAINAGE AREA 1 150 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	480
FEB	---	AUG	63.7
MAR	1 510	SEP	32.0
APR	3 250	OCT	58.6
MAY	284	NOV	---
JUN	113	DEC	---

TOTAL DISCHARGE, 5 790 dam³

DRIEDMEAT LAKE AT OUTFLOW - STATION NO. 05FA020

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	685.128	685.100	685.004	685.165	685.861	684.905	684.816	684.879A	---	1
2	---	---	---	685.206	685.100	684.989	685.170	685.767	684.912	684.903	---	---	2
3	---	---	---	685.260	685.106	684.959	685.302	685.666	684.903	684.863	---	---	3
4	---	---	---	685.306	685.103	685.004	685.278	685.578	684.888	684.821	---	---	4
5	---	---	---	685.353	685.094	685.002	685.284	685.498	684.892	684.850	---	---	5
6	---	---	---	685.395	685.122	684.994	685.331	685.419	684.884	684.836	---	---	6
7	---	---	---	685.421	685.110	684.987	685.386	685.347	684.887	684.837	---	---	7
8	---	---	---	685.459	685.084	685.001	685.432	685.286	684.881	684.837	---	---	8
9	---	---	---	685.472	685.064	684.989	685.519	685.234	684.869	684.846	---	---	9
10	---	---	---	685.484	685.071	684.998	685.611	685.194	684.869	684.882	---	---	10
11	---	---	---	685.494A	685.045	684.971	685.696	685.159	684.866	684.834	---	---	11
12	---	---	---	685.466	685.046	685.047	685.890	685.129	684.886	684.835	---	---	12
13	---	---	---	685.441	685.031	685.043	686.144	685.115	684.865	684.847	---	---	13
14	---	---	---	685.410	685.037	685.000	686.330	685.080	684.869	684.832	---	---	14
15	---	---	---	685.382	685.043	684.979	686.465	685.066	684.832	684.819	---	---	15
16	---	---	---	685.344	685.026	685.005	686.533E	685.057	684.853	684.807	---	---	16
17	---	---	---	685.304	685.004	685.026	686.601E	685.036	684.889	684.791	---	---	17
18	---	---	---	685.294	685.010	685.035	686.668E	685.026	684.852	684.812	---	---	18
19	---	---	---	685.257	684.981	685.060	686.736A	685.021	684.872	684.858	---	---	19
20	---	---	---	685.234	684.982	685.074	686.729A	685.002	684.858	684.813	---	---	20
21	---	---	---	685.206	685.004	685.076	686.693E	684.996	684.864	684.813	---	---	21
22	---	---	---	685.195	684.974	685.067	686.657E	684.990	684.831	684.825	---	---	22
23	---	684.778A	---	685.181	684.960	685.107	686.620E	684.981	684.847	684.813	---	---	23
24	---	---	---	685.157	684.961	685.113	686.584A	684.956	684.848	684.813	---	---	24
25	---	---	---	685.153	684.933	685.126	686.514	684.944	684.851	684.820	---	---	25
26	---	---	---	685.156	684.962	685.143	686.440	684.937	684.850	684.865	---	---	26
27	---	---	684.841A	685.117	684.960	685.157	686.362	684.940	684.849	684.803	---	---	27
28	---	---	684.870	685.147	684.953	685.152	686.268	684.928	684.804	684.844	---	---	28
29	---		684.907	685.175	684.934	685.156	686.164	684.920	684.852	684.836	---	---	29
30	---		684.965	685.120	684.957	685.155	686.059	684.935	684.841	684.831	---	---	30
31	---		685.055		684.974		685.961	684.923		684.844		---	31
MEAN	---	---	---	685.291	685.024	685.047	686.051	685.161	684.866	684.834	---	---	MEAN
MAX	---	---	---	685.494	685.122	685.157	686.736	685.861	684.912	684.903	---	---	MAX
MIN	---	---	---	685.117	684.933	684.959	685.165	684.920	684.804	684.791	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 686.736A ON JUL 19
MINIMUM DAILY, 684.778A ON FEB 23

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 47 20 N
LONG 112 42 30 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

DRAINAGE AREA,
7 240 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

DRIFTWOOD RIVER NEAR THE MOUTH - STATION NO. 07BK007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.751B	0.429B	0.422B	0.337B	14.7	10.2	7.20E	1.10	0.232	0.079	0.156B	0.052B	1
2	0.774B	0.414B	0.414B	0.346B	17.5	9.70	6.60E	0.967	0.215	0.104	0.156B	0.047B	2
3	0.758B	0.457B	0.396B	0.444B	17.7	9.08	8.40E	0.887	0.182	0.111	0.157B	0.048B	3
4	0.629B	0.508B	0.388B	0.424B	17.7	8.55	8.00E	0.825	0.146	0.118	0.161B	0.045B	4
5	0.652B	0.498B	0.366B	0.572B	17.8	7.94	7.40E	0.750	0.131	0.120	0.156B	0.045B	5
6	0.644B	0.517B	0.355B	1.61 B	17.7	8.08	7.20E	0.743	0.123	0.129	0.136B	0.045B	6
7	0.649B	0.510B	0.344B	1.23 B	18.2	7.79	9.00E	0.701	0.102	0.139	0.137B	0.052B	7
8	0.663B	0.520B	0.344B	1.37 B	17.2	7.05	9.70E	0.562	0.101	0.145	0.137B	0.050B	8
9	0.681B	0.518B	0.351B	1.57 B	16.2	7.83	9.80E	0.481	0.073	0.160	0.114B	0.050B	9
10	0.695B	0.509B	0.351B	1.54 B	16.0	7.99	9.40E	0.472	0.052	0.192	0.107B	0.047B	10
11	0.611B	0.477B	0.344B	1.44 B	15.3	10.4	8.30E	0.470	0.042	0.193	0.111B	0.043B	11
12	0.551B	0.477B	0.340B	1.49 B	14.3	40.0	7.00E	0.428	0.043	0.198	0.107B	0.038B	12
13	0.551B	0.470B	0.355B	1.40 B	13.3	45.0	6.00E	0.390	0.044	0.213	0.105B	0.036B	13
14	0.552B	0.462B	0.359B	1.44 B	12.3	40.4	5.00E	0.362	0.047	0.293	0.109B	0.029B	14
15	0.508B	0.455B	0.359B	1.70 B	11.6	29.6	4.00E	0.345	0.048	0.318	0.120B	0.026B	15
16	0.516B	0.451B	0.381B	2.17 B	11.0	23.8	3.50E	0.349	0.055	0.303B	0.128B	0.024B	16
17	0.514B	0.455B	0.381B	2.65 B	10.7	20.0	3.00E	0.336	0.050	0.277B	0.130B	0.019B	17
18	0.493B	0.440B	0.370B	2.69 B	10.1	17.5	2.90E	0.310	0.042	0.249B	0.123B	0.017B	18
19	0.486B	0.448B	0.388B	2.97 B	10.2	16.7	2.90E	0.277	0.039	0.247B	0.121B	0.017B	19
20	0.479B	0.474B	0.407B	7.25 B	10.2	15.7	2.85E	0.271	0.040	0.230B	0.110B	0.017B	20
21	0.476B	0.479B	0.377B	9.23 B	10.4	14.4	2.80E	0.284	0.041	0.221B	0.094B	0.015B	21
22	0.453B	0.490B	0.322B	12.0	10.7	13.7	2.60E	0.385	0.039	0.210B	0.074B	0.015B	22
23	0.493B	0.546B	0.318B	12.3	10.7	12.5	2.40E	0.463	0.046	0.221B	0.062B	0.012B	23
24	0.477B	0.462B	0.314B	12.9	11.6	11.4	2.10E	0.459	0.055	0.218B	0.061B	0.012B	24
25	0.466B	0.500B	0.329B	22.7	14.8	10.6	2.00E	0.412	0.059	0.227B	0.068B	0.010B	25
26	0.459B	0.522B	0.337B	21.3	15.6	10.1 A	1.85E	0.408	0.055	0.252B	0.061B	0.008B	26
27	0.444B	0.466B	0.355B	17.1	14.6	9.20E	1.60E	0.416	0.056	0.230B	0.053B	0.006B	27
28	0.444B	0.445B	0.359B	16.8	13.7	9.70E	1.50E	0.364	0.059	0.196B	0.061B	0.005B	28
29	0.451B		0.362B	14.7	12.7	9.00E	1.40E	0.306	0.074	0.190B	0.052B	0.003B	29
30	0.440B		0.366B	14.3	11.7	7.70E	1.30E	0.252	0.077	0.164B	0.052B	0.003B	30
31	0.444B		0.344B		10.9		1.19A	0.233		0.150B		0.003B	31
TOTAL	17.204	13.399	11.198	188.973	427.1	451.61	148.89	15.008	2.368	6.097	3.221	0.839	TOTAL
MEAN	0.555	0.479	0.361	6.30	13.8	15.1	4.80	0.484	0.079	0.197	0.107	0.027	MEAN
MAX	0.774	0.546	0.422	22.7	18.2	45.0	9.80	1.10	0.232	0.318	0.161	0.052	MAX
MIN	0.440	0.414	0.314	0.337	10.1	7.05	1.19	0.233	0.039	0.079	0.052	0.003	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.52
MAXIMUM DAILY, 45.0 ON JUN 13
MINIMUM DAILY, 0.003B ON DEC 29
MAXIMUM INSTANTANEOUS,
47.6 AT 18:00 MST ON JUN 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 15 19 N
LONG 114 13 54 W
DRAINAGE AREA, 2 100 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	1 490	JUL	12 900
FEB	1 160	AUG	1 300
MAR	968	SEP	205
APR	16 300	OCT	527
MAY	36 900	NOV	270
JUN	39 000	DEC	72.5

TOTAL DISCHARGE, 111 000 dam³

DRY COULEE NEAR MAGRATH - STATION NO. 05AE041

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.232	0.229	0.339	0.441	0.150	0.647	---	---	1
2	---	---	---	---	0.266	0.151	0.397	0.413	0.148	0.530	---	---	2
3	---	---	---	---	0.115	0.147	0.535	0.752	0.153	0.650	---	---	3
4	---	---	---	---	0.066	0.114	0.424	0.729	0.174	0.669	---	---	4
5	---	---	---	---	0.041	0.090	0.403	0.795	0.168	0.559	---	---	5
6	---	---	---	---	0.029	0.079	0.629	0.726	0.272	0.608	---	---	6
7	---	---	---	---	0.024	0.073	0.673	0.333	0.308	0.515	---	---	7
8	---	---	---	---	0.025	0.065	0.584	0.454	0.352	0.519	---	---	8
9	---	---	---	---	0.028	0.064	0.551	0.465	0.422	0.295	---	---	9
10	---	---	---	---	0.026	0.066	0.437	0.520	0.308	0.312	---	---	10
11	---	---	---	---	0.024	0.107	0.333	0.619	0.366	0.320	---	---	11
12	---	---	---	---	0.025	0.090	0.269	0.559	0.425	0.187	---	---	12
13	---	---	---	---	0.027	0.255	0.364	0.587	0.503	0.078	---	---	13
14	---	---	---	---	0.024	0.370	0.571	0.413	0.420	0.052	---	---	14
15	---	---	---	---	0.022	0.215	0.678	0.302	0.412	0.034	---	---	15
16	---	---	---	---	0.021	0.133	0.771	0.364	0.422	0.028	---	---	16
17	---	---	---	---	0.019	0.117	0.642	0.707	0.263	0.009	---	---	17
18	---	---	---	---	0.021	0.099	0.686	0.655	0.360	0.004	---	---	18
19	---	---	---	0.020A	0.048	0.092	0.761	0.509	0.354	0.002	---	---	19
20	---	---	---	0.017	0.054	0.160	0.952	0.493	0.397	0.001	---	---	20
21	---	---	---	0.014	0.046	0.273	1.11	0.430	0.529	0.002	---	---	21
22	---	---	---	0.013	0.032	0.278	0.926	0.233	0.531	0.012	---	---	22
23	---	---	---	0.012	0.051	0.271	0.823	0.189	0.513	0.013	---	---	23
24	---	---	---	0.009	0.255	0.264	0.636	0.188	0.532	0.013	---	---	24
25	---	---	---	0.008	0.919	0.312	0.729	0.240	0.421	0.012	---	---	25
26	---	---	---	0.012	0.382	0.325	0.790	0.380	0.371	0.010	---	---	26
27	---	---	---	0.019	0.224	0.304	0.561	0.308	0.488	0.007	---	---	27
28	---	---	---	0.033	0.233	0.309	0.435	0.279	0.555	0.007	---	---	28
29	---	---	---	0.043	0.699	0.276	0.374	0.262	0.480	0.006	---	---	29
30	---		---	0.069	1.17	0.280	0.405	0.216	0.566	0.006	---	---	30
31	---		---		0.419		0.448	0.185		0.007A		---	31
TOTAL	---	---	---	---	5.567	5.608	18.236	13.848	11.363	6.114	---	---	TOTAL
MEAN	---	---	---	---	0.180	0.187	0.588	0.447	0.379	0.197	---	---	MEAN
MAX	---	---	---	---	1.17	0.370	1.11	0.795	0.566	0.669	---	---	MAX
MIN	---	---	---	---	0.019	0.064	0.269	0.185	0.148	0.001	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.330
MAXIMUM DAILY, 1.17 ON MAY 30
MINIMUM DAILY, 0.001 ON OCT 20

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 29 39 N
LONG 112 55 48 W
DRAINAGE AREA, 54.9 km²
A - MANUAL GAUGE

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 580
FEB	---	AUG	1 200
MAR	---	SEP	982
APR	---	OCT	528
MAY	481	NOV	---
JUN	485	DEC	---

TOTAL DISCHARGE, 5 260 dam³

DRYWOOD CREEK NEAR THE MOUTH - STATION NO. 05AD010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.21 B	0.705B	0.788B	1.66	5.46	18.6	7.64	3.67	1.20	0.532	1.10	1.35 B	1
2	0.999B	0.725B	0.715B	1.94	7.76	13.9	7.33	3.38	1.21	0.526	1.15	1.17 B	2
3	0.987B	0.760B	0.837B	2.20	9.53	11.5	6.19	3.14	1.19	0.624	1.02	1.24 B	3
4	0.930B	0.740B	0.968B	2.05	11.0	11.3	5.35	2.76	1.17	0.355	1.06	1.29 B	4
5	1.15 B	0.737B	0.901B	1.88	13.6	10.5	4.58	2.48	1.09	1.09	1.01	1.35 B	5
6	1.20 B	0.720B	0.903B	1.85	21.0	9.59	4.26	2.24	1.00	1.11	0.813	1.23 B	6
7	1.21 B	0.740B	0.987B	1.83	17.8	9.30	4.19	2.04	0.888	0.952	1.12	1.21 B	7
8	1.14 B	0.760B	1.04 B	1.92	13.3	9.65	4.00	1.96	0.902	0.958	1.12	1.20 B	8
9	0.970B	0.800B	0.887B	2.00B	10.8	9.34	3.66	1.89	0.909	0.928	1.09	1.20 B	9
10	0.860B	0.860B	0.933B	1.87B	9.93	10.9	3.65	1.80	0.857	1.30	1.20	1.14 B	10
11	0.760B	0.900B	0.953B	1.97B	8.80	12.5	3.55	1.73	0.848	1.25	1.29	1.09 B	11
12	0.805B	0.820B	0.930B	2.13	9.20	10.5	3.64	1.65	0.804	1.03	1.36	0.922B	12
13	0.860B	0.760B	0.944B	2.41	9.53	9.53	3.61	1.58	0.951	1.17	0.986	0.840B	13
14	0.830B	0.703B	0.922B	3.02	7.59	8.46	3.44	1.50	0.889	1.14	1.56	0.800B	14
15	0.790B	0.685B	0.906B	3.16	7.36	7.38	3.13	1.44	0.851	1.18	1.33	0.770B	15
16	0.745B	0.680B	0.849B	3.25	7.00	7.42	2.76	1.48	0.707	1.29	1.44	0.720B	16
17	0.720B	0.700B	0.911B	3.31	7.01	8.50	2.58	1.46	0.797	1.27	1.38	0.670B	17
18	0.750B	0.730B	0.851B	4.00	7.73	10.5	2.42	1.49	0.826	1.10	1.35	0.620B	18
19	0.810B	0.780B	1.14 B	5.66	8.14	11.5	2.50	1.53	0.799	1.21	1.20	0.580B	19
20	0.860B	0.820B	1.42 B	7.47	8.24	12.2	2.39	2.02	0.808	1.21	1.33	0.560B	20
21	0.910B	0.870B	1.38 B	8.95	7.95	11.6	2.11	2.40	0.783	0.909	1.04	0.540B	21
22	0.980B	0.905B	0.927B	9.81	7.67	10.4	1.92	2.17	0.734	1.10	1.61	0.530B	22
23	1.05 B	0.940B	0.835B	9.39	8.50	10.8	1.83	1.97	0.669	1.10	1.51	0.525B	23
24	0.858B	0.960B	0.820B	8.45	13.5	12.3	2.07	1.97	0.627	1.04	0.877B	0.525B	24
25	0.854B	0.970B	0.880B	7.56	22.4	11.7	13.7	1.93	0.636	0.800	0.440B	0.525B	25
26	0.825B	0.940B	0.935B	6.85	16.7	11.0	12.6	1.84	0.645	0.931	0.430B	0.520B	26
27	0.800B	0.840B	1.01 B	6.02	13.4	10.1	9.29	1.63	0.676	1.08	0.660B	0.500B	27
28	0.740B	0.734B	1.10 B	5.98B	12.7	8.96	7.01	1.44	0.673	0.939	2.02 B	0.490B	28
29	0.710B		1.17	5.85B	28.6	7.72	5.75	1.35	0.618	1.03	1.78 B	0.480B	29
30	0.700B		1.36	4.89	27.1	7.13	4.84	1.19	0.628	1.05	1.55 B	0.460B	30
31	0.690B		1.68		22.3		4.28	1.19		1.06		0.450B	31
TOTAL	27.703	22.284	30.882	129.42	379.30	314.78	146.25	60.32	25.385	31.264	35.826	25.497	TOTAL
MEAN	0.894	0.796	0.996	4.31	12.2	10.5	4.72	1.95	0.846	1.01	1.19	0.823	MEAN
MAX	1.21	0.970	1.68	9.81	28.6	18.6	13.7	2.40	1.21	1.30	2.02	1.35	MAX
MIN	0.690	0.680	0.715	1.66	5.46	7.13	1.83	1.19	0.618	0.355	0.430	0.450	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.37
MAXIMUM DAILY, 28.6 ON MAY 29
MINIMUM DAILY, 0.355 ON OCT 04
MAXIMUM INSTANTANEOUS
30.9 AT 16:30 MST ON MAY 29

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 17 38 N
LONG 113 47 35 W
DRAINAGE AREA, 238 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	2 390	JUL	12 600
FEB	1 930	AUG	5 210
MAR	2 670	SEP	2 190
APR	11 200	OCT	2 700
MAY	32 800	NOV	3 100
JUN	27 200	DEC	2 200

TOTAL DISCHARGE, 106 000 dam³

DUTCH CREEK NEAR THE MOUTH - STATION NO. 05AA026

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	2.26	14.3	4.54	2.66	0.911	0.500	0.978	---	1
2	---	---	---	---	2.59	12.8	4.14	2.64	0.882	0.543	0.855B	---	2
3	---	---	---	---	2.98	11.0	3.80	2.35	0.865	0.522	0.820B	---	3
4	---	---	---	---	3.86	10.0	3.36	2.15	0.853	1.16	0.860B	---	4
5	---	---	---	---	5.11	8.64	3.07	2.01	0.820	3.62	0.763B	---	5
6	---	---	---	---	7.10	7.75	2.96	1.89	0.789	1.66	---	---	6
7	---	---	---	---	6.08	7.51	3.13	1.78	0.765	1.24 B	---	---	7
8	---	---	---	---	4.90	6.95	2.91	1.70	0.748	1.11 B	---	---	8
9	---	---	---	---	4.23	6.75	2.69	1.62	0.728	1.04	---	---	9
10	---	---	---	---	3.99	7.49	2.55	1.55	0.711	1.11	---	---	10
11	---	---	---	---	3.76	7.68	2.39	1.52	0.699	1.03 B	---	---	11
12	---	---	---	---	3.66	6.62	2.28	1.45	0.681	0.954	---	---	12
13	---	---	---	---	3.53	5.71	2.16	1.38	0.774	0.919	---	---	13
14	---	---	---	---	3.38	5.36	2.02	1.31	0.707	0.860	---	---	14
15	---	---	---	---	3.22	4.97	1.89	1.25	0.676	0.836	---	---	15
16	---	---	---	---	3.25	5.06	1.78	1.24	0.666	0.821B	---	---	16
17	---	---	---	---	3.38	5.45	1.69	1.17	0.649	0.869B	---	---	17
18	---	---	---	---	3.72	5.87	1.61	1.18	0.632	0.810	---	---	18
19	---	---	---	---	4.48	6.00	1.81	1.22	0.619	0.766B	---	---	19
20	---	---	---	---	4.57	6.59	1.60	1.16	0.605	0.779B	---	---	20
21	---	---	---	---	4.43	6.56	1.45	1.10	0.596	0.743B	---	---	21
22	---	---	---	---	4.42	6.61	1.35	1.05	0.585	0.718	---	---	22
23	---	---	---	---	5.02	6.96	1.39	1.28	0.569	0.690B	---	---	23
24	---	---	---	---	7.40	6.94	1.83	1.22	0.550	0.684	---	---	24
25	---	---	---	---	21.2	6.82	4.21	1.24	0.536	0.737	---	---	25
26	---	---	---	---	19.5	6.43	5.69A	1.25	0.531	1.25	---	---	26
27	---	---	---	---	14.0	5.91	4.74	1.13	0.525	1.03	---	---	27
28	---	---	---	---	12.3	5.18	4.04	1.04	0.518	1.10	---	---	28
29	---	---	---	---	11.2	4.65	3.52	0.989	0.506	1.06	---	---	29
30	---		---	2.21A	21.6	4.58	3.09	0.972	0.499	0.986	---	---	30
31	---		---		17.2		2.82	0.932		0.995		---	31
TOTAL	---	---	---	---	228.32	213.14	86.51	45.433	20.195	31.142	---	---	TOTAL
MEAN	---	---	---	---	7.37	7.10	2.79	1.47	0.673	1.00	---	---	MEAN
MAX	---	---	---	---	21.6	14.3	5.69	2.66	0.911	3.62	---	---	MAX
MIN	---	---	---	---	2.26	4.58	1.35	0.932	0.499	0.500	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.40
MAXIMUM DAILY, 21.6 ON MAY 30
MINIMUM DAILY, 0.499 ON SEP 30
MAXIMUM INSTANTANEOUS,
23.6 AT 21:50 MST ON MAY 29

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 54 06 N
LONG 114 25 49 W
DRAINAGE AREA, 143 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	7 470
FEB	---	AUG	3 930
MAR	---	SEP	1 740
APR	---	OCT	2 690
MAY	19 700	NOV	---
JUN	18 400	DEC	---

TOTAL DISCHARGE, 53 900 dam³

EAST PRAIRIE RIVER NEAR ENILDA - STATION NO. 07BF001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.440B	2.14B	13.9 A	8.37A	4.32	4.69	4.45	0.924	1.58 B	---	1
2	---	---	0.445B	2.54B	12.5 A	7.91A	4.53	3.67	16.2	0.936	0.592B	---	2
3	---	---	0.450B	3.00B	16.3 E	7.41A	6.65	2.97	10.2	0.929	---	---	3
4	---	---	0.455B	3.85B	20.0 A	7.17A	7.40	2.60	6.99	0.943	---	---	4
5	---	---	0.460B	4.80B	17.5 A	6.93A	23.8	2.17	5.38	1.06	---	---	5
6	---	---	0.460B	4.41B	14.6 A	6.52A	18.0	2.03	4.53	1.11	---	---	6
7	---	---	0.455B	4.08B	16.1 A	25.0 A	12.6	1.72	4.07	1.29	---	---	7
8	---	---	0.450B	3.87B	21.1 A	19.8	10.9	1.59	3.49	1.54	---	---	8
9	---	---	0.445B	3.67B	18.6 A	15.4	9.62	1.53	3.09	1.63	---	---	9
10	---	---	0.440B	3.32B	16.8 A	13.1	8.15	1.56	2.76	1.61	---	---	10
11	---	---	0.435B	3.00B	16.2 A	14.7	6.76	1.62	2.64	1.64	---	---	11
12	---	---	0.435B	3.47B	15.8 E	47.1	6.12	1.59	2.50	2.10	---	---	12
13	---	---	0.440B	3.61B	13.8 E	145	5.20	1.31	2.27	3.95	---	---	13
14	---	---	0.450B	4.80A	12.8 E	108	4.36	1.10	2.06	3.47	---	---	14
15	---	---	0.470B	4.80A	11.5 A	58.2	3.84	1.03	1.93	3.00	---	---	15
16	---	---	0.485B	4.80A	10.7 A	40.8	3.72	1.06	2.02	3.08	---	---	16
17	---	---	0.490B	5.38A	10.2 A	29.1	3.73	1.41	1.97	2.87	---	---	17
18	---	---	0.495B	4.00A	9.99A	22.7	3.52	1.11	1.84	2.44	---	---	18
19	---	---	0.490B	5.73A	10.6 E	18.6	4.29	1.05	1.72	1.99	---	---	19
20	---	---	0.480B	10.4 A	12.2 E	14.8	6.33	0.969	2.16	1.85	---	---	20
21	---	---	0.500B	16.2 A	12.9 A	12.2	5.32	1.11	2.30	1.82	---	---	21
22	---	---	0.550B	17.3 A	15.5 A	10.3	4.46	1.34	2.00	2.28	---	---	22
23	---	---	0.700B	19.3 A	16.1 A	8.69	3.79	1.53	1.73	2.05	---	---	23
24	---	---	0.850B	29.8 E	19.6 A	7.61	3.22	1.08	1.50	2.14	---	---	24
25	---	---	0.750B	39.5 A	18.7 A	7.11A	2.86	3.87	1.37	2.22	---	---	25
26	---	---	0.700B	32.6 A	15.2 E	6.01E	2.66	3.09	1.26	2.14	---	---	26
27	---	---	0.800B	28.9 A	13.1 A	5.65E	2.57	2.76	1.16	2.15	---	---	27
28	---	---	1.00 B	21.8 A	12.1 A	5.42E	5.20	2.21	1.07	2.27 B	---	---	28
29	---	---	1.36 B	15.3 A	10.8 A	4.81A	14.6	1.92	0.987	2.88 B	---	---	29
30	---		1.55 B	14.4 A	9.52A	4.45	8.52	1.97	0.928	2.34 B	---	---	30
31	---		1.82 B		8.90A		6.07	2.12		2.37 B		---	31
TOTAL	---	---	19.750	320.77	443.91	698.68	213.11	59.779	96.575	63.002	---	---	TOTAL
MEAN	---	---	0.637	10.7	14.3	23.3	6.87	1.93	3.22	2.03	---	---	MEAN
MAX	---	---	1.82	39.5	21.1	145	23.8	4.69	16.2	3.95	---	---	MAX
MIN	---	---	0.435	2.14	8.90	4.45	2.57	0.969	0.928	0.924	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 7.82
MAXIMUM DAILY, 145 ON JUN 13
MINIMUM DAILY, 0.435B ON MAR 11
MAXIMUM INSTANTANEOUS,
173 AT 20:00 MST ON JUN 13

TYPE OF GAUGE - MANUAL
LOCATION - LAT 55 25 00 N
LONG 116 20 20 W
DRAINAGE AREA, 1 460 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	18 400
FEB	---	AUG	5 160
MAR	1 710	SEP	8 340
APR	27 700	OCT	5 440
MAY	38 400	NOV	---
JUN	60 400	DEC	---

TOTAL DISCHARGE, 166 000 dam³

EASTERN IRRIGATION DISTRICT EAST BRANCH CANAL NEAR LATHOM - STATION NO. 05CJ003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0	33.1	22.9	41.6	42.1	37.9	24.5	0	---	1
2	---	---	---	0	34.6	22.6	41.7	42.2	37.9	23.9	0	---	2
3	---	---	---	0	34.7	22.7	41.7	42.2	38.1	24.0	0	---	3
4	---	---	---	0	34.2	22.5	41.7	42.2	36.7	25.7	0	---	4
5	---	---	---	0	34.4	19.3	41.5	42.1	33.2	29.7	0	---	5
6	---	---	---	0	34.6	18.7	41.9	42.2	31.3	32.0	0	---	6
7	---	---	---	0	33.9	21.3	42.0	42.3	30.0	32.7	0	---	7
8	---	---	---	0	33.4	24.6	41.7	42.5	30.4	32.7	0	---	8
9	---	---	---	0	33.3	25.4	41.2	42.7	30.3	35.2	0	---	9
10	---	---	---	0	31.4	25.5	40.8	42.7	30.1	36.5	0	---	10
11	---	---	---	0	29.9	28.5	41.5	42.8	29.7	37.0	0	---	11
12	---	---	---	0	29.8	30.6	42.6	42.6	29.8	24.3	0	---	12
13	---	---	---	0	29.7	34.1	42.9	42.7	29.7	6.84	0	---	13
14	---	---	---	0	29.6	37.0	42.7	42.8	29.6	2.04	0	---	14
15	---	---	---	0	29.4	37.1	43.0	40.6	29.6	0	0	---	15
16	---	---	---	0.531	29.5	37.8	43.0	38.5	29.9	.0	0	---	16
17	---	---	---	6.84	29.1	38.2	42.8	39.4	29.8	0	0	---	17
18	---	---	---	10.2	29.1	38.2	42.9	39.3	28.4	0	0	---	18
19	---	---	---	13.8	28.8	38.5	41.8	38.9	28.2	0	0	---	19
20	---	---	---	16.6	28.7	38.9	41.6	38.9	28.8	0	0	---	20
21	---	---	---	19.1	28.8	39.7	42.0	38.9	28.6	0	0	---	21
22	---	---	---	19.8	29.0	40.6	41.9	38.5	28.4	0	0	---	22
23	---	---	---	20.6	30.4	40.2	41.8	38.2	28.2	0	0	---	23
24	---	---	---	22.9	33.2	40.4	41.6	38.5	29.2	0	0	---	24
25	---	---	---	26.6	34.2	40.3	41.8	38.8	29.8	0	0	---	25
26	---	---	---	26.6	34.0	39.9	41.9	38.8	29.1	0	0	---	26
27	---	---	OA	27.7	34.1	39.7	41.7	38.5	28.3	0	0	---	27
28	---	---	0	28.8	34.0	41.0	41.7	39.4	27.3	0	OA	---	28
29	---	---	0	29.1	34.2	41.6	41.7	39.7	26.4	0	OE	---	29
30	---		0	30.1	34.0	41.7	42.2	39.9	25.4	0	OE	---	30
31	---		0		25.0		42.4	38.9		0		---	31
TOTAL	---	---	---	299.271	979.2	988.5	1 301.3	1 257.8	910.1	366.58	0	---	TOTAL
MEAN	---	---	---	9.98	31.6	33.0	42.0	40.6	30.3	11.8	0	---	MEAN
MAX	---	---	---	30.1	34.7	41.7	43.0	42.8	38.1	37.0	0	---	MAX
MIN	---	---	---	0	25.0	18.7	40.8	38.2	25.4	0	0	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 25.0
MAXIMUM DAILY, 43.0 ON JUL 15
MINIMUM DAILY, 0 ON APR 01

SUMMARY FOR THE MONTHS APR TO NOV

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 43 20 N
LONG 112 20 20 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	112 000
FEB	---	AUG	109 000
MAR	---	SEP	78 600
APR	25 900	OCT	31 700
MAY	84 600	NOV	0
JUN	85 400	DEC	---

TOTAL DISCHARGE, 527 000 dam³

EASTERN IRRIGATION DISTRICT NORTH BRANCH CANAL NEAR BASSANO - STATION NO. 05CJ001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0	2.08	5.40	8.15	9.19	9.48	4.98	0	---	1
2	---	---	---	0	1.92	5.40	8.21	9.24	9.60	4.93	0	---	2
3	---	---	---	0	1.87	5.29	8.83	9.26	9.74	4.90	0	---	3
4	---	---	---	0	1.93	5.34	8.99	9.24	9.77	4.95	0	---	4
5	---	---	---	0	1.79	5.10	9.03	9.21	9.78	5.02	0	---	5
6	---	---	---	0	1.70	4.88	9.08	9.18	9.66	5.03	0	---	6
7	---	---	---	0	1.69	4.41	9.20	9.17	9.33	5.03	0	---	7
8	---	---	---	0	1.67	4.16	9.14	9.28	9.47	7.06	0	---	8
9	---	---	---	0	1.63	3.87	9.24	9.43	9.51	9.07	0	---	9
10	---	---	---	0	1.55	3.87	9.13	9.46	9.22	9.06	0	---	10
11	---	---	---	0	1.51	3.68	9.13	9.58	8.77	8.79	0	---	11
12	---	---	---	0	1.55	4.71	9.23	9.46	8.77	4.14	0	---	12
13	---	---	---	0	1.44	4.45	9.65	9.57	8.54	0.025	0	---	13
14	---	---	---	0	3.11	4.40	9.84	9.57	8.42	0	0	---	14
15	---	---	---	0	3.81	4.38	9.89	9.57	8.39	0	0	---	15
16	---	---	---	0	4.17	4.46	9.90	9.29	8.48	0	0	---	16
17	---	---	---	0	4.44	4.51	9.78	9.45	8.47	0	0	---	17
18	---	---	---	0	5.29	4.51	9.83	9.30	8.36	0	0	---	18
19	---	---	---	0	5.73	4.95	9.82	9.02	8.79	0	0	---	19
20	---	---	---	0	5.57	5.73	9.78	9.42	8.94	0	0	---	20
21	---	---	---	0	5.66	6.43	9.72	9.53	8.97	0	0	---	21
22	---	---	---	0	5.60	6.76	9.64	9.36	8.96	0	0	---	22
23	---	---	---	0	5.61	6.76	9.66	9.20	8.98	0	0	---	23
24	---	---	---	0	5.70	6.88	9.62	9.11	6.92	0	0	---	24
25	---	---	---	0	5.87	6.94	9.56	9.05	5.81	0	0	---	25
26	---	---	---	0	5.87	7.53	9.66	9.04	5.85	0	0	---	26
27	---	---	OA	0.082A	5.89	7.75	9.63	8.88	5.66	0	0	---	27
28	---	---	0	0.122	5.85	7.90	9.61	9.40	5.49	0	OA	---	28
29	---	---	0	0.119	5.87	7.95	9.57	9.45	5.39	0	OE	---	29
30	---		0	1.45	5.87	8.01	9.44	9.59	5.21	0	OE	---	30
31	---		0		5.59		9.41	9.57		0		---	31
TOTAL	---	---	---	1.773	117.83	166.41	291.37	289.07	248.73	72.985	0	---	TOTAL
MEAN	---	---	---	0.059	3.80	5.55	9.40	9.32	8.29	2.35	0	---	MEAN
MAX	---	---	---	1.45	5.89	8.01	9.90	9.59	9.78	9.07	0	---	MAX
MIN	---	---	---	0	1.44	3.68	8.15	8.88	5.21	0	0	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.87
MAXIMUM DAILY, 9.90 ON JUL 16
MINIMUM DAILY, 0 ON APR 01

SUMMARY FOR THE MONTHS APR TO NOV

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 45 00 N
LONG 112 25 00 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	25 200
FEB	---	AUG	25 000
MAR	---	SEP	21 500
APR	153	OCT	6 310
MAY	10 200	NOV	0
JUN	14 400	DEC	---

TOTAL DISCHARGE, 103 000 dam³

EASTERN IRRIGATION DISTRICT SPRINGHILL CANAL NEAR LATHOM - STATION NO. 05CJ004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0	0	9.39	28.0	17.0	6.50	7.55	0	---	1
2	---	---	---	0	0	9.44	28.2	17.0	6.61	7.68	0	---	2
3	---	---	---	0	0	9.41	27.3	18.1	6.68	7.64	0	---	3
4	---	---	---	0	0	10.6	26.8	18.1	6.71	7.81	0	---	4
5	---	---	---	0	0	10.0	26.4	18.1	8.05	7.92	0	---	5
6	---	---	---	0	0	8.75	25.3	18.1	8.69	7.87	0	---	6
7	---	---	---	0	3.57	8.79	24.8	17.1	8.64	7.87	0	---	7
8	---	---	---	0	4.44	7.75	24.8	16.6	8.72	7.91	0	---	8
9	---	---	---	0	4.35	7.23	23.1	16.6	8.70	7.90	0	---	9
10	---	---	---	0	4.36	7.24	22.2	16.7	8.67	7.78	0	---	10
11	---	---	---	0	5.00	7.43	22.6	16.7	9.14	7.49	0	---	11
12	---	---	---	0	5.14	7.56	24.1	16.7	9.45	3.00	0	---	12
13	---	---	---	0	5.15	7.69	25.1	15.4	9.45	0	0	---	13
14	---	---	---	0	5.49	7.80	25.3	14.8	9.44	0	0	---	14
15	---	---	---	0	7.57	7.78	25.4	14.8	9.46	0	0	---	15
16	---	---	---	0	9.10	9.03	26.8	14.3	9.47	0	0	---	16
17	---	---	---	0	9.64	10.3	27.7	13.1	8.72	0	0	---	17
18	---	---	---	0	11.7	12.2	27.7	12.3	8.42	0	0	---	18
19	---	---	---	0	13.7	14.7	25.6	12.2	8.63	0	0	---	19
20	---	---	---	0	14.0	16.7	23.7	12.0	8.47	0	0	---	20
21	---	---	---	0	13.6	18.9	23.2	10.7	8.41	0	0	---	21
22	---	---	---	0	13.1	20.7	23.2	10.2	8.43	0	0	---	22
23	---	---	---	0	13.2	21.4	21.7	10.2	8.43	0	0	---	23
24	---	---	---	0	13.6	21.5	20.9	9.19	7.97	0	0	---	24
25	---	---	---	0	13.7	24.0	20.9	8.64	7.83	0	0	---	25
26	---	---	---	0	13.8	26.4	20.5	8.65	7.82	0	0	---	26
27	---	---	0A	0	13.7	27.4	19.8	8.62	7.70	0	0	---	27
28	---	---	0	0	13.7	27.7	19.6	7.85	7.67	0	0A	---	28
29	---	---	0	0	13.7	27.9	19.5	7.40	7.65	0	0E	---	29
30	---		0	0	12.3	27.9	17.9	7.42	7.59	0	0E	---	30
31	---		0		9.98		17.0	6.85		0		---	31
TOTAL	---	---	---	0	247.59	433.59	735.1	412.22	248.12	88.42	0	---	TOTAL
MEAN	---	---	---	0	7.99	14.5	23.7	13.3	8.27	2.85	0	---	MEAN
MAX	---	---	---	0	14.0	27.9	28.2	18.1	9.47	7.92	0	---	MAX
MIN	---	---	---	0	0	7.23	17.0	6.85	6.50	0	0	---	MIN

SUMMARY FOR THE MONTHS APR TO NOV

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 8.87
MAXIMUM DAILY, 28.2 ON JUL 02
MINIMUM DAILY, 0 ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 43 20 N
LONG 112 20 20 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	63 500
FEB	---	AUG	35 600
MAR	---	SEP	21 400
APR	0	OCT	7 640
MAY	21 400	NOV	0
JUN	37 500	DEC	---

TOTAL DISCHARGE, 187 000 dam³

ELBOW RIVER ABOVE ELBOW FALLS - STATION NO. 05BJ006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.92B	1.86B	2.67	44.2	16.3	13.9	7.15	4.57E	3.89A	---	1
2	---	---	1.90B	1.98B	3.01	48.9	14.9	12.8	6.97	4.55E	---	---	2
3	---	---	1.89B	1.99B	3.36	41.9	16.1	11.6	6.78	4.53A	---	---	3
4	---	---	1.90B	1.93B	3.61	37.7	13.9	10.6	6.50	4.66	---	---	4
5	---	---	1.94B	1.88B	3.78	29.5	12.8	10.1	6.37	5.16	---	---	5
6	---	---	1.91B	1.94B	4.35	24.9	13.1	9.65	6.24	4.76	---	---	6
7	---	---	1.89B	1.93B	4.55	22.4	15.1	9.32	6.07	4.60	---	---	7
8	---	---	1.88B	1.97B	4.54	19.5	15.3	8.98	5.97	4.60	---	---	8
9	---	---	1.86B	1.89B	4.54	19.0	14.1	8.59	5.87	4.68	---	---	9
10	---	---	1.85B	1.88B	4.71	23.7	13.7	8.32	5.76	4.78	---	---	10
11	---	---	1.84B	1.89B	4.78	24.2	13.1	8.29	5.66	4.62	---	---	11
12	---	---	1.83B	1.90B	4.77	18.8	13.2	8.48	5.68	4.55	---	---	12
13	---	---	1.83B	1.95B	4.70	17.3	13.2	8.29	5.63	4.53	---	---	13
14	---	---	1.82B	2.08B	4.75	15.9	12.5	7.90	5.47	4.42	---	---	14
15	---	---	1.79B	2.10B	4.60	16.3	11.6	7.72	5.36	4.38	---	---	15
16	---	---	1.79B	2.08	4.52	17.5	11.0	7.62	5.28	4.43	---	---	16
17	---	---	1.79B	2.12	4.47	18.9	10.6	7.74	5.18	4.34	---	---	17
18	---	---	1.80B	2.15	4.51	20.2	10.1	10.6	5.09	4.33	---	---	18
19	---	---	1.81B	2.22	4.55	19.5	10.1	9.84	5.02	4.28	---	---	19
20	---	---	1.81B	2.32	4.59	19.3	9.55	8.89	4.91	4.19	---	---	20
21	---	---	1.80B	2.35	4.68	20.0	8.96	8.84	4.86A	4.19	---	---	21
22	---	---	1.80B	2.39	4.69	22.1	8.66	8.95	4.86A	4.19	---	---	22
23	---	---	1.78B	2.41	5.42	25.3	8.75	8.69	4.89A	4.10	---	---	23
24	---	---	1.76B	2.44	11.8	24.1	9.49	9.02	4.96E	4.10	---	---	24
25	---	---	1.74B	2.47	70.1	23.4	20.3	9.36	4.83A	4.15	---	---	25
26	---	---	1.73B	2.51	83.3	21.7	26.4	9.34	4.63A	4.21	---	---	26
27	---	---	1.74B	2.51	53.2	19.5	22.5	8.84	4.69A	4.11	---	---	27
28	---	1.97B	1.74B	2.50	38.6	17.3	19.2	9.24	4.67A	4.11	---	---	28
29	---		1.79B	2.49	55.6	15.6	18.2	7.83	4.64A	4.04	---	---	29
30	---		1.88B	2.51	57.6	15.8	17.1	7.63	4.59A	3.99	---	---	30
31	---		1.90B		43.4		15.2	7.44		4.01		---	31
TOTAL	---	---	56.71	64.64	513.75	704.4	435.01	283.41	164.58	136.16	---	---	TOTAL
MEAN	---	---	1.83	2.15	16.6	23.5	14.0	9.14	5.49	4.39	---	---	MEAN
MAX	---	---	1.94	2.51	83.3	48.9	26.4	13.9	7.15	5.16	---	---	MAX
MIN	---	---	1.73	1.86	2.67	15.6	8.66	7.44	4.59	3.99	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 9.63
MAXIMUM DAILY, 83.3 ON MAY 26
MINIMUM DAILY, 1.73B ON MAR 26
MAXIMUM INSTANTANEOUS,
132 AT 23:15 MST ON MAY 25

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 51 20 N
LONG 114 47 37 W
DRAINAGE AREA, 437 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	37 600
FEB	---	AUG	24 500
MAR	4 900	SEP	14 200
APR	5 580	OCT	11 800
MAY	44 400	NOV	---
JUN	60 900	DEC	---

TOTAL DISCHARGE, 204 000 dam³

ELBOW RIVER AT BRAGG CREEK - STATION NO. 05BJ004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	3.34B	2.65B	2.52B	3.65	4.88	58.6	20.3	18.8	9.58	6.38	5.35	4.30B	1
2	3.27B	2.95B	2.51B	3.92	6.18	73.0	18.9	17.3	9.31	6.31	5.10	4.00B	2
3	3.20B	3.10B	2.53B	4.04	7.15	63.3	20.0	16.1	9.23	6.29	4.89B	3.77B	3
4	3.17B	3.08B	2.55B	3.80	8.19	53.3	17.8	14.5	8.95	6.33	5.04	3.95B	4
5	3.15B	3.04B	2.57B	3.44	8.60	43.1	15.9	13.4	8.66	7.19	5.03	4.20B	5
6	3.17B	2.98B	2.58B	3.59	9.22	36.0	15.5	12.6	8.42	6.78	4.78B	4.00B	6
7	3.20B	2.96B	2.59B	3.63	9.24	32.5	17.3	14.6	8.22	6.44	4.92	4.20B	7
8	3.28B	2.94B	2.58B	3.72	8.90	28.5	18.0	14.6	8.10	6.41	4.94	4.10B	8
9	3.32B	2.97B	2.53B	3.28B	8.59	26.4	16.2	11.6	8.02	6.52	4.93	4.00B	9
10	3.20B	3.02B	2.43B	3.21B	8.83	28.9	15.6	10.8	7.88	6.91	4.90	3.85B	10
11	3.19B	3.09B	2.33B	3.40B	9.02	30.5	14.8	10.6	7.78	6.64	4.90	3.70B	11
12	3.27B	3.08B	2.29B	3.57	9.10	25.3	14.6	10.8	7.84	6.44	4.96	3.55B	12
13	3.26B	2.92B	2.29B	3.77	9.10	24.5	14.6	11.0	8.19	6.33	5.22	3.50B	13
14	3.24B	2.60B	2.29B	4.26	9.40	24.1	14.2	10.2	7.81	6.22	5.38	3.60B	14
15	3.19B	2.47B	2.29B	4.35	8.94	22.6	13.2	9.93	7.62	6.10	5.02	3.70B	15
16	3.13B	2.40B	2.27B	4.21	8.73	23.7	12.5	10.1	7.52	6.18	4.65	3.80B	16
17	3.03B	2.42B	2.26B	4.28	8.58	24.2	12.1	10.5	7.44	5.92	4.29	3.90B	17
18	2.94B	2.60B	2.27B	4.44	8.69	24.5	11.9	10.7	7.35	5.93	3.94	4.00B	18
19	2.96B	2.87B	2.31B	4.64	8.73	24.0	12.3	15.4	7.26	5.86	3.63	3.70B	19
20	3.15B	2.97B	2.34B	4.82	8.80	24.2	11.5	13.3	7.26	5.68	3.30	3.50B	20
21	3.33B	3.03B	2.25B	4.93	9.32	23.8	10.8	12.0	7.12	5.68	4.60B	3.00B	21
22	3.30B	3.07B	2.24B	4.90	9.08	24.3	10.3	12.2	7.04	5.69	4.55B	3.15B	22
23	3.27B	3.08B	2.25B	4.85	9.54	27.5	10.3	11.7	6.91	5.52	4.45B	3.30B	23
24	3.20B	3.08B	2.26B	4.80	15.5	27.5	10.9	12.3	6.84	5.55	4.30B	3.60B	24
25	3.12B	3.07B	2.30B	4.66	88.4	26.6	19.1	12.4	6.75	5.61	4.30B	3.75B	25
26	3.03B	3.01B	2.33B	4.82	129	24.9	32.3	13.2	6.66	5.66	4.10B	4.00B	26
27	2.95B	2.90B	2.40B	4.66	75.1	23.6	29.3	12.0	6.63	5.55	4.10B	3.75B	27
28	2.81B	2.71B	2.60B	4.63	55.2	21.3	26.5	11.3	6.60	5.51	4.20B	3.73B	28
29	2.68B		3.31B	4.44	70.6	19.2	23.2	10.7	6.52	5.44	4.30B	3.25B	29
30	2.53B		3.70	4.44	76.0	19.2	22.3	10.2	6.47	5.32	4.40B	3.00B	30
31	2.51B		3.84		61.5		20.0	9.87		5.31		3.00B	31
TOTAL	96.39	81.06	77.81	125.12	768.79	929.3	522.2	386.80	229.98	187.70	138.55	114.45	TOTAL
MEAN	3.11	2.90	2.51	4.17	24.8	31.0	16.8	12.5	7.67	6.05	4.62	3.69	MEAN
MAX	3.34	3.10	3.84	4.93	129	73.0	32.3	18.8	9.58	7.19	5.38	4.30	MAX
MIN	2.51	2.40	2.24	3.21	4.88	19.2	10.3	9.87	6.47	5.31	3.30	3.00	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 10.0
MAXIMUM DAILY, 129 ON MAY 26
MINIMUM DAILY, 2.24B ON MAR 22
MAXIMUM INSTANTANEOUS,
172 AT 03:11 MST ON MAY 26

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 56 53 N
LONG 114 34 10 W
DRAINAGE AREA, 791 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	8 330	JUL	45 100
FEB	7 000	AUG	33 400
MAR	6 720	SEP	19 900
APR	10 800	OCT	16 200
MAY	66 400	NOV	12 000
JUN	80 300	DEC	9 890

TOTAL DISCHARGE, 316 000 dam³

ELBOW RIVER AT SARCEE BRIDGE - STATION NO. 05BJ010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	6.00E	4.98	61.0	19.6	19.8	10.1	5.93	---	---	1
2	---	---	---	6.00E	5.87	77.7	20.0	18.7	9.81	5.89	---	---	2
3	---	---	---	5.64A	7.07	78.0	20.6	18.3	9.65	5.90	---	---	3
4	---	---	---	5.22	8.06	65.3	20.3	16.0	9.37	5.91	---	---	4
5	---	---	---	4.85	8.57	52.9	18.3	14.6	8.93	6.80	---	---	5
6	---	---	---	4.34	9.21	43.1	16.5	13.4	8.64	7.11	---	---	6
7	---	---	---	4.43	9.54	37.8	16.6	12.7	8.36	6.64	---	---	7
8	---	---	---	4.45	9.49	33.2	19.0	12.1	8.12	6.41	---	---	8
9	---	---	---	4.28	9.05	29.1	18.4	11.6	7.90	6.43	---	---	9
10	---	---	---	3.81	9.05	29.1	16.8	11.2	7.74	6.68	---	---	10
11	---	---	---	3.67	9.42	34.2	16.1	10.6	7.57	6.74	---	---	11
12	---	---	---	3.82	9.65	34.6	15.2	10.7	7.57	6.59	---	---	12
13	---	---	---	4.07	9.62	33.3	14.7	11.1	8.33	6.45	---	---	13
14	---	---	---	4.55	9.71	32.2	14.6	10.5	7.90	6.40	---	---	14
15	---	---	---	4.88	9.71	31.0	14.3	10.1	7.49	6.24	---	---	15
16	---	---	---	4.73	9.31	29.9	13.3	10.3	7.24	6.39	---	---	16
17	---	---	---	4.68	9.04	28.7	12.7	12.4	7.15	6.55	---	---	17
18	---	---	---	4.81	9.12	27.4	12.4	19.0	6.93	6.17	---	---	18
19	---	---	---	5.03	9.27	26.4	12.5	19.9	6.89	6.14	---	---	19
20	---	---	---	5.15	9.30	24.9	13.1	16.0	6.89	6.03	---	---	20
21	---	---	---	5.29	9.66	25.2	12.0	13.8	6.79	5.94	---	---	21
22	---	---	---	5.27	9.60	24.4	11.6	13.2	6.65	6.01	---	---	22
23	---	---	---	5.29	9.60	26.4	10.5	12.7	6.50	5.90	---	---	23
24	---	---	---	5.20	13.3	29.7	10.5	12.9	6.38	5.83	---	---	24
25	---	---	---	4.96	42.8	29.6	10.7	13.4	6.27	5.91	---	---	25
26	---	---	---	5.27	128	27.1	17.1	14.4	6.17	5.93	---	---	26
27	---	---	---	5.24	102	25.2	32.6	13.4	6.11	5.93	---	---	27
28	---	---	---	5.27	67.2	23.6	30.1	12.4	6.08	5.87	---	---	28
29	---	---	---	4.86	64.9	21.1	26.5	11.5	6.05	5.87	---	---	29
30	---		---	4.66	82.7	19.3	23.1	11.0	6.00	5.80	---	---	30
31	---		---		74.5		21.4	10.5		5.75A		---	31
TOTAL	---	---	---	145.72	779.30	1 060.4	530.5	418.2	225.58	191.84	---	---	TOTAL
MEAN	---	---	---	4.86	25.1	35.3	17.1	13.5	7.52	6.19	---	---	MEAN
MAX	---	---	---	6.00	128	78.0	32.6	19.9	10.1	7.11	---	---	MAX
MIN	---	---	---	3.67	4.98	19.3	10.3	10.1	6.00	5.75	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 15.7
MAXIMUM DAILY, 128 ON MAY 26
MINIMUM DAILY, 3.67 ON APR 11
MAXIMUM INSTANTANEOUS,
158 AT 16:05 MST ON MAY 26

SUMMARY FOR THE MONTHS APR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 59 40 N
LONG 114 10 00 W
DRAINAGE AREA, 1 180 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	45 800
FEB	---	AUG	36 100
MAR	---	SEP	19 500
APR	12 600	OCT	16 600
MAY	67 300	NOV	---
JUN	91 600	DEC	---

TOTAL DISCHARGE, 290 000 dam³

ELBOW RIVER BELOW GLENMORE DAM - STATION NO. 05BJ001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.19	1.24 B	1.09	4.19	1.81	71.1	16.4	19.0	6.69	1.59	4.37	2.65 B	1
2	1.56	1.26 B	1.06	4.42	4.36	72.8	16.6	9.08	8.40	1.39	4.35	3.96 B	2
3	1.60	1.31	1.09	6.97	4.54	72.9	17.3	5.13	9.27	1.61	4.37	4.68	3
4	1.67	1.25	1.07	10.4	4.58	55.5	17.1	5.13	8.47	1.65	4.40	4.59	4
5	1.68	1.21	1.06	8.25	6.65	50.7	21.0 A	5.15	6.33	1.66	4.42	4.38	5
6	1.20	1.24	0.950	6.45	4.38	46.6	17.4	7.43	4.11	1.69	4.38	4.40	6
7	1.20	1.27	0.753	4.74	7.20	33.8	19.1	9.74A	4.45	1.70	4.39	4.42	7
8	1.20	1.23	0.739	3.12	7.18	28.1	21.6	8.70E	4.49	1.77	6.28	4.43	8
9	1.21	1.36	0.791	3.11	7.11	30.1	15.6	7.65	4.45	4.78	7.63	4.44	9
10	1.21	1.23	0.690	2.64	7.02	27.2	12.6	7.57	2.71	4.77	7.64	4.45	10
11	1.27	1.25	0.707	1.49	7.24	31.9	14.0	7.61	1.53	4.71	7.57	3.88 B	11
12	1.21	1.24 B	0.901	1.30	7.22	31.5	14.4	7.56	1.54	6.87	5.31	2.98 B	12
13	1.19	1.23 B	0.993	1.16	7.16	25.1	12.5	5.20	1.53	9.44	4.39	2.55 B	13
14	1.21	1.22 B	0.765	1.77	6.80	22.0	12.4	4.30	1.55	10.7	4.35	1.97 B	14
15	1.20	1.21 B	0.718	3.17	6.94	21.8	12.3	3.83	7.04	10.7	4.88	1.68	15
16	1.49	1.20 B	0.733	4.52	7.08	22.4	8.78A	3.02	1.54	7.70	4.40	1.66	16
17	1.51	1.18 B	0.732	4.32	6.33	25.8	9.26A	4.28	1.53	5.55	4.35	2.33	17
18	1.23	1.15 B	0.731	3.21	4.26	26.4	11.1	12.3	1.54	4.41	4.34	1.63 B	18
19	1.21	1.13 B	0.727	2.72	5.18	20.7	11.5	16.8	1.55	4.42	2.96	1.10 B	19
20	1.20	1.10	0.891	3.86	7.29	21.1	9.93	15.5	1.55	4.42	1.77B	1.00 B	20
21	1.20	0.862	1.02	3.79	7.48	24.2	9.36	12.5	1.54	4.41	2.10B	0.950B	21
22	1.21	0.980	1.21 B	1.85	7.35	24.1	9.38	11.9	1.57	4.38	2.10B	0.900B	22
23	1.25	2.17	1.21 B	2.05	7.50	21.3	7.62	9.44	1.58	4.44	2.10B	0.800B	23
24	1.24	4.18	1.03	4.37	13.4	26.8	7.52	9.40	1.58	4.35	2.10B	0.900B	24
25	1.21	2.31	1.04	2.64	56.9	33.6	8.87	10.7	1.55	4.30	2.00B	0.850B	25
26	1.23	1.19	1.58	1.54	126	22.5	26.1	13.8	1.57	4.42	2.10B	0.800B	26
27	1.23B	1.16	2.39	4.08	105	20.3	30.8	13.6	1.59	4.35	1.93	0.850B	27
28	1.24	1.14	2.40	4.48	67.6	20.2	26.7	12.5	1.60	4.33	2.10	1.25 B	28
29	1.24B		2.38	1.63	85.6	20.2	23.9	10.1	1.63	4.35	2.70	1.25 B	29
30	1.24B		2.24	1.55	87.2	17.6	18.9	6.70	1.59	4.38	2.16B	1.20 B	30
31	1.24B		4.23		87.9		18.9	6.62		4.35		1.00 B	31
TOTAL	39.97	38.502	38.921	109.59	772.06	968.3	478.92	282.24	96.07	139.79	117.94	73.930	TOTAL
MEAN	1.29	1.38	1.26	3.65	24.9	32.3	15.4	9.10	3.20	4.51	3.93	2.38	MEAN
MAX	1.68	4.18	4.23	10.4	126	72.9	30.8	19.0	9.27	10.7	7.64	4.68	MAX
MIN	1.19	0.862	0.690	1.16	1.81	17.6	7.52	3.02	1.53	1.59	1.77	0.800	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 8.65
MAXIMUM DAILY, 126 ON MAY 26
MINIMUM DAILY, 0.690 ON MAR 10
MAXIMUM INSTANTANEOUS,
131 AT 19:28 MST ON MAY 26

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 00 55 N
LONG 114 05 33 W
DRAINAGE AREA, 1 230 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1932

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	3 450	JUL	41 400
FEB	3 330	AUG	24 400
MAR	3 360	SEP	8 300
APR	9 470	OCT	12 100
MAY	66 700	NOV	10 200
JUN	83 700	DEC	6 390

TOTAL DISCHARGE, 273 000 dam³

ELDER CREEK AT HIGHWAY NO. 686 - STATION NO. 07HB002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.160B	1.02	0.104	0.229	0.001	0.002	0	---	---	1
2	---	---	0 B	0.420B	0.768	0.100	0.742	0.001	0.002	0.001	---	---	2
3	---	---	0 B	1.00 B	0.696	0.101	0.765	0.002	0.001	0.001	---	---	3
4	---	---	0 B	1.27 B	0.771	0.101	0.528	0.001	0	0.001	---	---	4
5	---	---	0 B	1.19 A	1.08	0.108	0.405	0.001	0	0.001	---	---	5
6	---	---	0 B	1.15	0.969	0.108	0.311	0	0	0.001	---	---	6
7	---	---	0 B	1.15	0.692	0.133	0.206	0	0	0.001	---	---	7
8	---	---	0 B	0.973	0.559	0.144	0.166	0	0	0.001	---	---	8
9	---	---	0 B	0.616	0.527	0.179	0.162	0.001	0	0.001	---	---	9
10	---	---	0 B	0.293	0.730	0.180	0.140	0	0	0.002	---	---	10
11	---	---	0 B	0.174	0.517	0.563	0.162	0	0	0.002	---	---	11
12	---	---	0 B	0.163	0.392	3.61	0.137	0	0	0.002	---	---	12
13	---	---	0 B	0.167	0.346	3.03	0.097	0.001	0	0.002	---	---	13
14	---	---	0 B	0.266	0.317	2.16	0.071	0.001	0	0.002	---	---	14
15	---	---	0 B	0.410	0.269	1.52	0.053	0.001	0	0.002	---	---	15
16	---	---	0 B	0.447	0.273	1.05	0.055	0.001	0	0.001	---	---	16
17	---	---	0.003B	0.463	0.273	0.699	0.065	0.001	0	0.001	---	---	17
18	---	---	0.005B	0.603	0.284	0.468	0.059	0.001	0	0.001B	---	---	18
19	---	---	0.004B	0.941	0.272	0.335	0.042	0.001	0.001	0.001B	---	---	19
20	---	---	0.003B	1.01	0.294	0.239	0.033	0.001	0.001	0.002B	---	---	20
21	---	---	0 B	0.948	0.272	0.314	0.027	0.001	0.001	0.002B	---	---	21
22	---	---	0 B	0.720	0.267	0.069	0.023	0	0.001	0.002B	---	---	22
23	---	---	0.002B	0.685	0.234	0.047	0.017	0.001	0.001	0.002B	---	---	23
24	---	---	0.005B	0.591	0.241	0.037	0.010	0.003	0.001	0.002B	---	---	24
25	---	---	0.008B	0.487	0.253A	0.050	0.009	0.002	0	0.003B	---	---	25
26	---	---	0.010B	0.340	0.222A	0.068	0.008	0.002	0	0.002B	---	---	26
27	---	---	0.015B	0.373	0.196A	0.090	0.008	0.003	0	0.002B	---	---	27
28	---	---	0.020B	0.331	0.118A	0.099	0.004	0.003	0	0.002B	---	---	28
29	---	---	0.027B	0.309	0.098A	0.146	0.002	0.002	0	0.002B	---	---	29
30	---		0.038B	0.601	0.094	0.136	0.002	0.002	0	0.002B	---	---	30
31	---		0.056B		0.111		0.001	0.002		0.002B		---	31
TOTAL	---	---	0.196	18.251	13.155	15.988	4.539	0.036	0.011	0.049	---	---	TOTAL
MEAN	---	---	0.006	0.608	0.424	0.533	0.146	0.001	0	0.002	---	---	MEAN
MAX	---	---	0.056	1.27	1.08	3.61	0.765	0.003	0.002	0.003	---	---	MAX
MIN	---	---	0	0.160	0.094	0.037	0.001	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.213
MAXIMUM DAILY, 3.61 ON JUN 12
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
4.20 AT 20:00 MST ON JUN 12

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 27 50 N
LONG 116 49 49 W
DRAINAGE AREA, 63.7 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	392
FEB	---	AUG	3.11
MAR	16.9	SEP	0.950
APR	1 580	OCT	4.23
MAY	1 140	NOV	---
JUN	1 380	DEC	---

TOTAL DISCHARGE, 4 520 dam³

ELKWATER LAKE AT ELKWATER - STATION NO. 05AH025

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	1 225.829	1 225.943	1 225.986	1 225.927	1 225.804	1 225.656	---	---	1
2	---	---	---	---	1 225.833	1 225.944	1 225.984	1 225.922	1 225.799	1 225.659	---	---	2
3	---	---	---	---	1 225.837	1 225.945	1 225.980	1 225.920	1 225.795	1 225.660	---	---	3
4	---	---	---	---	1 225.841	1 225.943	1 225.969	1 225.915	1 225.787	1 225.660	---	---	4
5	---	---	---	---	1 225.843	1 225.940	1 225.964	1 225.907	1 225.782	1 225.658	---	---	5
6	---	---	---	---	1 225.842	1 225.942	1 225.963	1 225.905	1 225.778	1 225.65[illegible]	---	---	6
7	---	---	---	---	1 225.842	1 225.950	1 225.960	1 225.898	1 225.772	1 225.649	---	---	7
8	---	---	---	---	1 225.850	1 225.951	1 225.955	1 225.891	1 225.768	1 225.646	---	---	8
9	---	---	---	---	1 225.855	1 225.950	1 225.952	1 225.887	1 225.762	1 225.644	---	---	9
10	---	---	---	1 225.766	1 225.858	1 225.946	1 225.949	1 225.880	1 225.758	1 225.642	---	---	10
11	---	---	---	---	1 225.858	1 225.941	1 225.943	1 225.876	1 225.754	1 225.643	---	---	11
12	---	---	---	---	1 225.861	1 225.941	1 225.936	1 225.873	1 225.749	1 225.642	---	---	12
13	---	---	1 225.684	---	1 225.861	1 225.971	1 225.931	1 225.871	1 225.746	1 225.640	---	---	13
14	---	---	---	---	1 225.859	1 225.990	1 225.924	1 225.865	1 225.738	1 225.637	---	---	14
15	---	1 225.634	---	---	1 225.861	1 225.995	1 225.919	1 225.863	1 225.730	1 225.637	---	---	15
16	---	---	---	---	1 225.862	1 225.998	1 225.917	1 225.856	1 225.722	1 225.639	---	---	16
17	---	---	---	---	1 225.862	1 226.001	1 225.919	1 225.854	1 225.717	1 225.639	---	---	17
18	---	---	---	---	1 225.867	1 226.000	1 225.916	1 225.851	1 225.709	1 225.635	---	---	18
19	---	---	---	---	1 225.882	1 225.999	1 225.925	1 225.848	1 225.708	1 225.621	---	---	19
20	---	---	---	---	1 225.884	1 226.004	1 225.925	1 225.842	1 225.704	1 225.598	---	---	20
21	---	---	---	---	1 225.894	1 226.009	1 225.921	1 225.841	1 225.696	1 225.579	---	---	21
22	---	---	---	---	1 225.894	1 226.006	1 225.918	1 225.835	1 225.691	1 225.567	---	---	22
23	---	---	---	---	1 225.893	1 226.005	1 225.912	1 225.828	1 225.686	1 225.557	---	---	23
24	---	---	---	1 225.812A1	225.898	1 226.005	1 225.908	1 225.825	1 225.686	1 225.540	---	---	24
25	---	---	---	1 225.809	1 225.924	1 226.005	1 225.909	1 225.829	1 225.685	1 225.527	---	---	25
26	---	---	1 225.705	1 225.812	1 225.933	1 226.004	1 225.911	1 225.829	1 225.681	1 225.513	---	---	26
27	---	---	---	1 225.818	1 225.937	1 226.003	1 225.929	1 225.829	1 225.677	1 225.502	---	---	27
28	---	1 225.646	---	1 225.824	1 225.937	1 225.997	1 225.937	1 225.826	1 225.671	1 225.488	---	---	28
29	---	---	---	1 225.825	1 225.939	1 225.997	1 225.934	1 225.821	1 225.664	1 225.486	---	---	29
30	1 225.630		---	1 225.825	1 225.941	1 225.988	1 225.931	1 225.816	1 225.658	1 225.482A	---	---	30
31	---		---		1 225.944		1 225.927	1 225.810		1 225.480E		---	31
MEAN	---	---	---	---	1 225.878	1 225.977	1 225.937	1 225.862	1 225.729	1 225.599	---	---	MEAN
MAX	---	---	---	---	1 225.944	1 226.009	1 225.986	1 225.927	1 225.804	1 225.660	---	---	MAX
MIN	---	---	---	---	1 225.829	1 225.940	1 225.908	1 225.810	1 225.658	1 225.480	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 1 226.009 ON JUN 21

MAXIMUM INSTANTANEOUS,
1 226.011 AT 06:25 MST ON JUN 21

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 39 44 N
LONG 110 17 10 W

A - MANUAL GAUGE

E - ESTIMATED

DRAINAGE AREA,
29 km²

EMBARRAS RIVER BELOW DIVERGENCE - STATION NO. 07DD003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	294E	200	---	112	68.5	---	---	---	1
2	---	---	---	---	294A	229	---	112	67.2	---	---	---	2
3	---	---	---	---	291	243	---	110	63.0	---	---	---	3
4	---	---	---	---	279	248	---	111	61.4	---	---	---	4
5	---	---	---	---	288	268	---	110	58.8	---	---	---	5
6	---	---	---	---	284	346	---	105	56.4	---	---	---	6
7	---	---	---	---	278	373	---	100	54.1	---	---	---	7
8	---	---	---	---	281	351	---	98.7	57.8	---	---	---	8
9	---	---	---	---	302	377	---	96.6	62.0	---	---	---	9
10	---	---	---	---	323	274	---	92.4	59.0	---	---	---	10
11	---	---	---	---	331	279	399A	87.0	52.8	---	---	---	11
12	---	---	---	---	324	279	---	80.6	48.4	---	---	---	12
13	---	---	---	---	310	283	---	78.2	44.7	---	---	---	13
14	---	---	---	---	295	318	---	74.2	41.7	---	---	---	14
15	---	---	---	---	287	344	---	74.7	38.6	---	---	---	15
16	---	---	---	---	272	354	---	74.6	35.8	---	---	---	16
17	---	---	---	---	251	402	---	71.3	33.7	---	---	---	17
18	---	---	---	---	236	502	289	67.9	33.2	---	---	---	18
19	---	---	---	---	223	565	265	66.3	32.4	---	---	---	19
20	---	---	---	---	210	579	251	65.7	31.3	---	---	---	20
21	---	---	---	---	201	546	234	66.1	30.1	---	---	---	21
22	---	---	---	---	193	509	209	68.0	29.3	---	---	---	22
23	---	---	---	---	186	471	188	71.9	28.8	---	---	---	23
24	---	---	---	---	183	431	174	73.1	28.6	---	---	---	24
25	---	---	---	---	179	386	163	72.6	31.3	---	---	---	25
26	---	---	---	---	176	351	149	71.4	41.3	---	---	---	26
27	---	---	---	---	175	313	137	68.5	44.4	---	---	---	27
28	---	---	---	---	176	283	125	66.1	40.1	---	---	---	28
29	---	---	---	---	181	265	118	63.6	35.3	---	---	---	29
30	---		---	---	186	263	111	62.9	31.8	---	---	---	30
31	---		---		184		109	65.6		---		---	31
TOTAL	---	---	---	---	7 665	10 532	---	2 536.0	1 341.8	---	---	---	TOTAL
MEAN	---	---	---	---	247	351	---	81.8	44.7	---	---	---	MEAN
MAX	---	---	---	---	331	579	---	112	68.5	---	---	---	MAX
MIN	---	---	---	---	175	200	---	62.9	28.6	---	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 25 20 N
LONG 111 33 05 W

A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	219 000
MAR	---	SEP	116 000
APR	---	OCT	---
MAY	662 000	NOV	---
JUN	910 000	DEC	---

EMBARRAS RIVER BREAKTHROUGH TO MAMAWI LAKE - STATION NO. 07KF015

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	151E	---	64.6	51.1	---	---	---	1
2	---	---	---	---	---	162E	---	63.4	49.1	---	---	---	2
3	---	---	---	---	153A	167E	---	63.2	46.7	---	---	---	3
4	---	---	---	---	---	169E	---	63.7	45.5	---	---	---	4
5	---	---	---	---	---	176E	---	65.0	45.1	---	---	---	5
6	---	---	---	---	---	204E	---	64.3	42.4	---	---	---	6
7	---	---	---	---	---	189A	---	61.1	41.9	---	---	---	7
8	---	---	---	---	---	183	---	63.5	42.8	---	---	---	8
9	---	---	---	---	---	179	---	63.8	45.6	---	---	---	9
10	---	---	---	---	---	176	---	62.2	45.2	---	---	---	10
11	---	---	---	---	---	181	231 A	60.4	42.3	---	---	---	11
12	---	---	---	---	---	184	---	57.3	39.0	---	---	---	12
13	---	---	---	---	---	182	---	56.2	35.9	---	---	---	13
14	---	---	---	---	---	191	---	55.2	34.0	---	---	---	14
15	---	---	---	---	---	202	---	53.8	31.3	---	---	---	15
16	---	---	---	---	---	209	---	54.4	29.5	---	---	---	16
17	---	---	---	---	---	221	---	53.5	29.7	---	---	---	17
18	---	---	---	---	---	253	---	49.9	28.6	---	---	---	18
19	---	---	---	---	---	284	---	49.3	28.2	---	---	---	19
20	---	---	---	---	---	288A	---	48.3	28.2	---	---	---	20
21	---	---	---	---	---	274E	---	49.6	27.7	---	---	---	21
22	---	---	---	---	---	261E	---	52.2	26.5	---	---	---	22
23	---	---	---	---	104A	248E	---	54.0	26.0	---	---	---	23
24	---	---	---	---	---	233E	---	54.4	25.5	---	---	---	24
25	---	---	---	---	---	218E	107 A	54.6	25.9	---	---	---	25
26	---	---	---	---	---	205E	96.9E	54.1	31.6	---	---	---	26
27	---	---	---	---	---	192E	89.1E	52.5	35.2	---	---	---	27
28	---	---	---	---	---	181E	81.5E	51.1	32.7	---	---	---	28
29	---	---	---	---	---	175E	76.7E	49.7	29.3	---	---	---	29
30	---		---	---	---	174E	72.2E	49.5	26.9	---	---	---	30
31	---		---		---		70.9E	51.1		---		---	31
TOTAL	---	---	---	---	---	6 112	---	1 745.9	1 069.4	---	---	---	TOTAL
MEAN	---	---	---	---	---	204	---	56.3	35.6	---	---	---	MEAN
MAX	---	---	---	---	---	288	---	65.0	51.1	---	---	---	MAX
MIN	---	---	---	---	---	151	---	48.3	25.5	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 20 48 N
LONG 111 26 40 W

A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	151 000
MAR	---	SEP	92 400
APR	---	OCT	---
MAY	---	NOV	---
JUN	528 000	DEC	---

EMBARRAS RIVER NEAR WEALD - STATION NO. 07AF014

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.02 B	2.49B	5.93	20.5	6.09	3.57	5.35	1.90	---	---	1
2	---	---	1.00 B	3.89B	6.41	18.0	6.99	3.30	4.66	1.84	---	---	2
3	---	---	1.02 B	4.12B	6.77	14.7	23.5	3.02	4.13	1.79	---	---	3
4	---	---	1.00 B	4.30B	6.56	17.7	43.2	2.92	3.57	1.92	---	---	4
5	---	---	1.00 B	3.79B	6.50	18.7	28.1	2.73	3.19	2.17	---	---	5
6	---	---	0.950B	3.66B	6.48	16.5	25.6	2.58	2.88	2.10	---	---	6
7	---	---	0.900B	3.87B	5.88	13.6	37.7	2.44	2.60	2.04	---	---	7
8	---	---	0.900B	3.73B	5.47	11.7	26.2	2.35	2.40	2.10	---	---	8
9	---	---	0.920B	3.11B	5.60	10.1	19.7	2.40	2.27	2.20	---	---	9
10	---	---	1.05 B	2.66B	5.64	9.01	15.5	2.25	2.17	2.59	---	---	10
11	---	---	0.980B	2.61B	5.56	9.85	12.4	2.13	2.18	2.88	---	---	11
12	---	---	1.00 B	2.88B	6.22	25.3	10.4	2.07	1.99	2.73	---	---	12
13	---	---	1.00 B	3.17B	8.06	59.9	9.69	2.22	2.06	2.60	---	---	13
14	---	---	1.00 B	3.70B	9.62	49.0	8.53	2.41	2.07	2.49	---	---	14
15	---	---	0.980B	4.67B	11.6	33.4	7.45	2.69	1.97	2.23B	---	---	15
16	---	---	0.980B	4.34B	11.9	25.6	7.40	3.14	2.06	2.25B	---	---	16
17	---	---	1.05 B	4.12B	11.1	20.7	7.11	4.13	4.73	2.66B	---	---	17
18	---	---	1.10 B	4.52B	10.6	16.8	6.38	4.33	4.96	2.46B	---	---	18
19	---	---	1.15 B	5.56B	10.6	14.7	6.11	4.08	3.96	2.31B	---	---	19
20	---	---	1.18 B	5.86B	10.2	13.2	5.70	3.34	3.49	2.24B	---	---	20
21	---	---	1.17 B	6.23B	11.3	11.8	5.30	2.96	3.08	2.18B	---	---	21
22	---	---	1.09 B	6.83B	13.2	10.3	4.84	2.81	2.80	1.96B	---	---	22
23	---	---	0.872B	6.66B	13.3	9.07	4.49	2.84	2.56	2.06B	---	---	23
24	---	---	0.777B	7.74B	13.4	8.08	4.67	2.99	2.39	2.03B	---	---	24
25	---	---	0.872B	7.74B	10.9	7.75	5.11	5.26	2.26	1.85B	---	---	25
26	---	---	0.922B	7.04	24.3	7.36	4.96	5.75	2.12	1.82B	---	---	26
27	---	0.813B	1.14 B	6.27	18.7	7.50	5.13	6.08	2.01	2.07B	---	---	27
28	---	0.950B	1.30 B	5.57	14.7	7.49	4.83	4.99	1.96	2.10B	---	---	28
29	---		1.45 B	5.07	12.6	7.06	4.26	4.13	1.92	2.46B	---	---	29
30	---		1.68 B	5.14	12.8	6.78	3.82	3.94	1.94	2.46B	---	---	30
31	---		2.05 B		22.5		3.60	5.20		2.46B		---	31
TOTAL	---	---	33.503	141.34	334.40	502.15	364.76	109.05	85.73	68.95	---	---	TOTAL
MEAN	---	---	1.08	4.71	10.8	16.7	11.8	3.52	2.86	2.22	---	---	MEAN
MAX	---	---	2.05	7.74	24.3	59.9	43.2	6.08	5.35	2.88	---	---	MAX
MIN	---	---	0.777	2.49	5.47	6.78	3.60	2.07	1.92	1.79	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 6.69
MAXIMUM DAILY, 59.9 ON JUN 13
MINIMUM DAILY, 0.777B ON MAR 24
MAXIMUM INSTANTANEOUS,
71.3 AT 17:47 MST ON JUN 13

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 22 31 N
LONG 116 48 20 W

DRAINAGE AREA, 647 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	31 500
FEB	---	AUG	9 420
MAR	2 890	SEP	7 410
APR	12 200	OCT	5 960
MAY	28 900	NOV	---
JUN	43 400	DEC	---

TOTAL DISCHARGE, 142 000 dam³

ERITH RIVER BELOW HANLAN CREEK - STATION NO. 07AF907

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	10.8	30.0	6.77	2.93	3.69	1.41	1.49B	---	1
2	---	---	---	---	11.6	28.6	7.48	2.80	3.13	1.37	---	---	2
3	---	---	---	---	12.5	21.6	27.6	2.60	2.74	1.32	---	---	3
4	---	---	---	---	11.5	18.8	50.5	2.43	2.49	1.48	---	---	4
5	---	---	---	---	11.4	16.8	31.0	2.28	2.26	1.78	---	---	5
6	---	---	---	---	11.4	14.4	45.4	2.16	2.06	1.79	---	---	6
7	---	---	---	---	9.84	12.1	94.5	2.06	1.89	1.68	---	---	7
8	---	---	---	---	9.26	10.4	46.0	1.92	1.76	1.68	---	---	8
9	---	---	---	---	9.95	8.88	30.6	1.86	1.72	1.81	---	---	9
10	---	---	---	---	9.70	7.70	22.4	1.79	1.67	2.15	---	---	10
11	---	---	---	---	9.10	9.98	17.4	1.70	1.56	2.35	---	---	11
12	---	---	---	---	9.63	36.8	14.0	1.64	1.50	2.22	---	---	12
13	---	---	---	---	11.3	86.0	12.2	1.65	1.53	2.01	---	---	13
14	---	---	---	---	12.6	54.4	10.3	1.73	1.58	2.19B	---	---	14
15	---	---	---	---	13.8	33.7	8.73	1.77	1.50	2.18B	---	---	15
16	---	---	---	---	13.6	24.6	8.70	1.82	1.58	2.14B	---	---	16
17	---	---	---	---	12.5	20.1	8.42	1.90	4.52	2.10B	---	---	17
18	---	---	---	11.6 A	12.0	16.7	7.31	2.14	4.19	2.06B	---	---	18
19	---	---	---	---	---	---	6.54	2.40	3.07	2.01B	---	---	19
20	---	---	---	18.1 A	12.4	14.8	6.67	2.40	3.07	2.01B	---	---	20
					12.6	14.3	6.05	1.78	2.61	1.98B	---	---	
21	---	---	---	18.1	18.9	13.4	5.50	1.61	2.32	1.94B	---	---	21
22	---	---	---	17.7	28.4	11.6	4.99	1.63	2.06	1.90B	---	---	22
23	---	---	---	16.3	21.7	10.3	4.49	3.05	1.89	1.86B	---	---	23
24	---	---	---	19.3	19.4	9.26	4.54	4.34	1.75	1.82B	---	---	24
25	---	---	---	17.2	32.5	8.81	4.46	3.22	1.63	1.77B	---	---	25
26	---	---	---	14.8	37.8	8.18	4.06	3.33	1.53	1.73B	---	---	26
27	---	---	---	12.6	27.3	7.66	3.73	3.70	1.48	1.69B	---	---	27
28	---	---	---	10.6	21.6	7.30	3.49	3.02	1.45	1.65B	---	---	28
29	---	---	---	9.19	18.5	7.52	3.25	2.51	1.44	1.61B	---	---	29
30	---		---	8.95	16.9	7.25	3.03	2.57	1.44	1.57B	---	---	30
31	---		---		33.4		2.97	3.90		1.53B		---	31
TOTAL	---	---	---	---	505.58	571.94	506.55	74.04	64.04	56.78	---	---	TOTAL
MEAN	---	---	---	---	16.3	19.1	16.3	2.39	2.13	1.83	---	---	MEAN
MAX	---	---	---	---	37.8	86.0	94.5	4.34	4.52	2.35	---	---	MAX
MIN	---	---	---	---	9.10	7.25	2.97	1.61	1.44	1.32	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 9.67
MAXIMUM DAILY, 94.5 ON JUL 07
MINIMUM DAILY, 1.32 ON OCT 03
MAXIMUM INSTANTANEOUS,
123 AT 05:02 MST ON JUL 07

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 14 08 N
LONG 116 33 55 W
DRAINAGE AREA, 595 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	43 800
FEB	---	AUG	6 400
MAR	---	SEP	5 530
APR	---	OCT	4 910
MAY	43 700	NOV	---
JUN	49 400	DEC	---

TOTAL DISCHARGE, 154 000 dam³

ETHEL LAKE NEAR COLD LAKE - STATION NO. 06AC004

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	541.107E	541.104	541.172	541.271	541.341	541.369	541.311	541.301	541.282A	---	1
2	---	---	541.107E	541.103	541.176	541.267	541.338	541.362	541.313	541.300	---	---	2
3	---	---	541.108E	541.104	541.182	541.268	541.372	541.358	541.312	541.296	---	---	3
4	---	---	541.108E	541.104	541.187	541.266	541.393	541.358	541.310	541.293	---	---	4
5	---	---	541.109E	541.105	541.192	541.266	541.394	541.359	541.311	541.291	---	---	5
6	---	---	541.109E	541.107	541.196	541.265	541.390	541.358	541.310	541.292	---	---	6
7	---	---	541.110E	541.107	541.200	541.265	541.391	541.353	541.312	541.293	---	---	7
8	---	---	541.110A	541.108	541.207	541.268	541.389	541.345	541.309	541.292	---	---	8
9	---	---	541.112	541.107	541.213	541.271	541.391	541.339	541.309	541.295	---	---	9
10	---	---	541.110	541.108	541.216	541.275	541.403	541.337	541.311	541.295	---	---	10
11	---	---	541.112	541.107	541.219	541.290	541.399	541.337	541.310	541.291	---	---	11
12	---	---	541.118	541.107	541.226	541.290	541.396	541.335	541.318	541.291	---	---	12
13	---	---	541.117	541.110	541.232	541.288	541.391	541.328	541.319	541.292	---	---	13
14	---	---	541.117	541.113	541.228	541.291	541.382	541.322	541.321	541.292	---	---	14
15	---	---	541.118	541.114	541.229	541.295	541.378	541.323	541.320	541.292	---	---	15
16	---	---	541.117	541.114	541.234	541.296	541.375	541.319	541.320	541.290	---	---	16
17	---	---	541.113	541.114	541.239	541.296	541.376	541.317	541.316	541.290	---	---	17
18	---	---	541.109	541.119	541.247	541.294	541.373	541.315	541.313	541.289	---	---	18
19	---	---	541.109	541.121	541.252	541.294	541.370	541.313	541.313	541.288	---	---	19
20	---	---	541.108	541.124	541.257	541.295	541.371	541.312	541.312	541.286	---	---	20
21	---	---	541.109	541.124	541.261	541.299	541.371	541.310	541.311	541.284	---	---	21
22	---	---	541.106	541.132	541.264	541.303	541.370	541.312	541.311	541.285	---	---	22
23	---	---	541.106	541.141	541.269	541.314	541.368	541.306	541.314	541.285	---	---	23
24	---	---	541.107	541.145	541.272	541.316	541.367	541.295	541.315	541.283	---	---	24
25	---	---	541.107	541.154	541.277	541.318	541.366	541.292	541.315	541.285	---	---	25
26	---	---	541.106	541.158	541.278	541.321	541.365	541.291	541.310	541.285	---	---	26
27	---	---	541.108	541.160	541.281	541.331	541.368	541.291	541.307	541.282	---	---	27
28	---	---	541.108	541.160	541.281	541.333	541.370	541.289	541.305	541.283	---	---	28
29	---		541.107	541.166	541.280	541.337	541.369	541.287	541.304	541.284	---	---	29
30	---		541.107	541.170	541.277	541.338	541.369	541.289	541.302	541.283	---	---	30
31	---		541.105		541.276		541.369	541.310		541.283		---	31
MEAN	---	---	541.110	541.124	541.236	541.294	541.376	541.324	541.312	541.289	---	---	MEAN
MAX	---	---	541.118	541.170	541.281	541.338	541.403	541.369	541.321	541.301	---	---	MAX
MIN	---	---	541.105	541.103	541.172	541.265	541.338	541.287	541.302	541.282	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 541.403 ON JUL 10

MAXIMUM INSTANTANEOUS,
541.407 AT 13:18 MST ON JUL 10

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 32 40 N
LONG 110 20 06 W

A - MANUAL GAUGE

E - ESTIMATED

DRAINAGE AREA,
594 km²

ETZIKOM COULEE NEAR NEMISKAM - STATION NO. 05AF905

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.600E	0.560	0.572	0.190	0	---	---	---	---	1
2	---	---	---	0.616A	0.428	0.408	0.160	0	---	---	---	---	2
3	---	---	---	0.568	0.385	0.324	0.151	0	---	---	---	---	3
4	---	---	---	0.482	0.350	0.661	0.219	0	---	0.226A	---	---	4
5	---	---	---	0.483	0.346	0.403	0.195	---	---	0.193	---	---	5
6	---	---	---	0.530	0.454	0.134	0.158	---	---	0.071	---	---	6
7	---	---	---	0.490	0.306	0.169	0.134	---	---	0.053	---	---	7
8	---	---	---	0.489	0.173	0.387	0.133	---	---	0.071	---	---	8
9	---	---	---	0.458	0.153	0.394	0.308	---	---	0.167	---	---	9
10	---	---	---	0.598	0.208	0.333	0.198	---	---	0.221	---	---	10
11	---	---	---	0.674	0.193	0.288	0.144	---	---	0.118	---	---	11
12	---	---	---	0.657	0.243	0.875	0.116	---	---	0.263	---	---	12
13	---	---	---	0.730	0.235	0.462	0.104	---	---	0.229	---	---	13
14	---	---	---	0.655	0.269	0.260	0.065	---	---	0.135	---	---	14
15	---	---	---	0.599	0.191	0.146	0.059	---	---	0.097	---	---	15
16	---	---	---	0.428	0.195	0.178	0.052	---	---	0.087	---	---	16
17	---	---	---	0.579	0.241	0.314	0.050	---	---	0.134	---	---	17
18	---	---	---	0.584	0.277	0.393	0.048	---	---	0.263	---	---	18
19	---	---	---	0.540	0.305	0.426	0	---	---	0.257	---	---	19
20	---	---	---	0.472	0.309	0.397	0	---	---	0.179	---	---	20
21	---	---	---	0.408	0.482	0.346	0	---	---	0.316	---	---	21
22	---	---	---	0.428	0.235	0.295	0	---	---	0.310	---	---	22
23	---	---	---	0.382	0.187	0.235	0	---	---	0.214	---	---	23
24	---	---	---	0.367	0.363	0.234	0	---	---	0.421	---	---	24
25	---	---	---	0.385	0.558	0.204	0	---	---	0.324	---	---	25
26	---	---	---	0.301	0.481	0.198	0	---	---	0.344	---	---	26
27	---	---	---	0.268	0.478	0.249	0	---	---	0.190	---	---	27
28	---	---	---	0.268	0.343	0.231	0	---	---	0.229	---	---	28
29	---	---	---	0.359	0.349	0.207	0	---	---	0.289	---	---	29
30	---		---	0.542	0.552	0.201	0	---	---	0.198A	---	---	30
31	---		---		0.468		0	---		0.100E		---	31
TOTAL	---	---	---	14.940	10.317	9.924	2.484	---	---	---	---	---	TOTAL
MEAN	---	---	---	0.498	0.333	0.331	0.080	---	---	---	---	---	MEAN
MAX	---	---	---	0.730	0.560	0.875	0.308	---	---	---	---	---	MAX
MIN	---	---	---	0.268	0.153	0.134	0	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE MONTHS APR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 26 40 N
LONG 111 16 00 W
DRAINAGE AREA, 3 040 km²
A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	215
FEB	---	AUG	---
MAR	---	SEP	---
APR	1 290	OCT	---
MAY	891	NOV	---
JUN	857	DEC	---

EUNICE CREEK NEAR HINTON - STATION NO. 07AF005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.034B	0.202	1.04	0.264	0.181	0.147	0.105	0.053B	---	1
2	---	---	---	0.033B	0.244	0.916	0.284	0.167	0.137	0.103	0.052B	---	2
3	---	---	---	0.033B	0.282	0.885	0.708	0.158	0.131	0.099	0.052B	---	3
4	---	---	---	0.032B	0.386	1.05	0.566	0.153	0.125	0.106B	0.051B	---	4
5	---	---	---	0.031B	0.551	0.839	0.398	0.146	0.121	0.097B	0.051B	---	5
6	---	---	---	0.037B	0.631	0.697	1.21	0.142	0.118	0.098B	0.051B	---	6
7	---	---	---	0.043B	0.465	0.596	1.27	0.139	0.114	0.096B	0.050B	---	7
8	---	---	---	0.044B	0.396	0.510	1.01	0.136	0.112	0.096B	0.050B	---	8
9	---	---	---	0.043B	0.400	0.443	0.835	0.133	0.113	0.103B	---	---	9
10	---	---	---	0.042B	0.458	0.413	0.666	0.132	0.109	0.108B	---	---	10
11	---	---	---	0.044B	0.426	0.573	0.511	0.129	0.109	0.110B	---	---	11
12	---	---	---	0.043B	0.381	1.40	0.442	0.146	0.107	0.097B	---	---	12
13	---	---	---	0.042B	0.406	2.55	0.406	0.158	0.111	0.093B	---	---	13
14	---	---	---	0.044B	0.434	1.81	0.349	0.147	0.110	0.090B	---	---	14
15	---	---	---	0.048B	0.450	1.39	0.311	0.139	0.105	0.085B	---	---	15
16	---	---	---	0.051B	0.474	1.12	0.313	0.143	0.183	0.082B	---	---	16
17	---	---	---	0.052B	0.507	0.934	0.284	0.154	0.256	0.080B	---	---	17
18	---	---	---	0.067B	0.572	0.784	0.267	0.187	0.173	0.077B	---	---	18
19	---	---	---	0.140B	0.580	0.671	0.273	0.153	0.151	0.075B	---	---	19
20	---	---	---	0.208B	0.592	0.549	0.260	0.134	0.137	0.072B	---	---	20
21	---	---	---	0.300B	0.620	0.484	0.248	0.125	0.128	0.068B	---	---	21
22	---	---	0.038B	0.313B	0.582	0.437	0.222	0.126	0.121	0.065B	---	---	22
23	---	---	0.040B	0.308B	0.571	0.385	0.208	0.200	0.114	0.064B	---	---	23
24	---	---	0.040B	0.341B	0.591	0.364	0.212	0.199	0.111	0.062B	---	---	24
25	---	---	0.040B	0.369B	0.967	0.339	0.214	0.180	0.110	0.060B	---	---	25
26	---	---	0.039B	0.300B	0.982	0.306	0.202	0.239	0.109	0.058B	---	---	26
27	---	---	0.038B	0.258B	0.827	0.312	0.201	0.184	0.107	0.057B	---	---	27
28	---	---	0.038B	0.222B	0.726	0.313	0.205	0.159	0.107	0.056B	---	---	28
29	---	---	0.037B	0.215B	0.650	0.349	0.191	0.146	0.106	0.055B	---	---	29
30	---		0.036B	0.209B	0.978	0.292	0.178	0.170	0.105	0.054B	---	---	30
31	---		0.035B		1.21		0.178	0.167		0.053B		---	31
TOTAL	---	---	---	3.946	17.541	22.751	12.886	4.872	3.787	2.524	---	---	TOTAL
MEAN	---	---	---	0.122	0.566	0.758	0.416	0.157	0.126	0.081	---	---	MEAN
MAX	---	---	---	0.369	1.21	2.55	1.27	0.239	0.256	0.110	---	---	MAX
MIN	---	---	---	0.031	0.202	0.292	0.178	0.125	0.105	0.053	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.319
MAXIMUM DAILY, 2.55 ON JUN 13
MINIMUM DAILY, 0.031B ON APR 05
MAXIMUM INSTANTANEOUS, 3.19 AT 06:07 MST ON JUN 13

SUMMARY FOR THE MONTHS APR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 09 10 N
LONG 117 13 55 W
DRAINAGE AREA, 17.1 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 110
FEB	---	AUG	421
MAR	---	SEP	327
APR	341	OCT	218
MAY	1 520	NOV	---
JUN	1 970	DEC	---

TOTAL DISCHARGE, 5 910 dam³

EUREKA RIVER NEAR WORSLEY - STATION NO. 07FD013

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.001B	2.00B	4.57	1.79	0.055	0	0	0	---	---	1
2	---	---	0 B	4.29B	3.98	1.68	0.128	0	0	0	---	---	2
3	---	---	0 B	6.83B	3.68	1.58	0.630	0	0	0	---	---	3
4	---	---	0 B	7.48B	3.80	1.51	2.25	0	0	0	---	---	4
5	---	---	0 B	8.55B	3.86	1.25	2.51	0	0	0	---	---	5
6	---	---	0.002B	11.6 B	3.86	1.15	2.54	0	0	0	---	---	6
7	---	---	0.002B	11.8 B	4.07	1.07	1.97	0	0	0	---	---	7
8	---	---	0 B	11.6 B	3.94	1.00	1.50	0	0	0	---	---	8
9	---	---	0 B	11.5 B	3.92	0.866	1.16	0	0	0	---	---	9
10	---	---	0 B	9.87B	3.83	0.779	0.940	0	0	0	---	---	10
11	---	---	0 B	8.40B	3.65	0.733	0.699	0	0	0	---	---	11
12	---	---	0 B	7.80B	3.36	0.975	0.501	0	0	0	---	---	12
13	---	---	0 B	7.48B	2.94	1.63	0.261	0	0	0	---	---	13
14	---	---	0 B	9.68B	2.53	3.24	0.303	0	0	0	---	---	14
15	---	---	0 B	14.4 B	2.20	2.99	0.221	0	0	0	---	---	15
16	---	---	0.004B	13.8 B	1.95	3.54	0.134	0.019	0	0	---	---	16
17	---	---	0.013B	13.3 B	1.74	3.99	0.076	0.020	0	0	---	---	17
18	---	---	0.008B	13.0	1.54	3.45	0.076	0.008	0	0	---	---	18
19	---	---	0.003B	12.5	1.43	2.46	0.053	0.005	0	0	---	---	19
20	---	---	0 B	11.2	1.44	1.83	0.034	0.002	0	0	---	---	20
21	---	---	0 B	9.42	1.34	1.41	0.029	0.001	0	0	---	---	21
22	---	---	0 B	8.24	1.28	1.20	0.021	0	0	0B	---	---	22
23	---	---	0 B	7.39	1.26	0.959	0.018	0	0	0B	---	---	23
24	---	---	0 B	6.98	1.19	0.728	0.013	0	0	0B	---	---	24
25	---	---	0 B	7.27	1.22	0.369	0.010	0	0	0B	---	---	25
26	---	---	0 B	7.62	1.48	0.119	0.006	0	0	0B	---	---	26
27	---	---	0.004B	7.48	1.98	0.064	0.004	0	0	0B	---	---	27
28	---	0B	0.010B	6.82	2.16	0.057	0.002	0	0	0B	---	---	28
29	---		0.020B	5.93	1.97	0.070	0.001	0	0	0B	---	---	29
30	---		0.296B	5.08	1.89	0.044	0	0	0	0B	---	---	30
31	---		1.72 B		1.84		0	0		0B		---	31
TOTAL	---	---	2.083	270.81	79.90	42.533	16.145	0.055	0	0	---	---	TOTAL
MEAN	---	---	0.067	9.03	2.58	1.42	0.521	0.002	0	0	---	---	MEAN
MAX	---	---	1.72	14.4	4.57	3.99	2.54	0.020	0	0	---	---	MAX
MIN	---	---	0	2.00	1.19	0.044	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.68
MAXIMUM DAILY, 14.4B ON APR 15
MINIMUM DAILY, 0B ON MAR 02
MAXIMUM INSTANTANEOUS,
16.7B AT 15:30 MST ON APR 15

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 27 00 N
LONG 119 07 10 W
DRAINAGE AREA, 754 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 390
FEB	---	AUG	4.75
MAR	180	SEP	0
APR	23 400	OCT	0
MAY	6 900	NOV	---
JUN	3 670	DEC	---

TOTAL DISCHARGE, 35 500 dam³

EXPANSE COULEE NEAR THE MOUTH - STATION NO. 05AG003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.036	1.14	1.77	2.13	1.17	1.72	---	---	1
2	---	---	---	---	0.035	1.07	2.06	2.24	1.24	1.64	---	---	2
3	---	---	---	---	0.034	1.08	2.07	2.01	1.33	1.80	---	---	3
4	---	---	---	---	0.032	0.915	2.22	2.05	1.34	1.63	---	---	4
5	---	---	---	---	0.032	1.06	2.07	2.09	1.38	1.84	---	---	5
6	---	---	---	---	0.029	1.10	2.10	1.92	1.48	1.94	---	---	6
7	---	---	---	---	0.028	1.06	2.03	1.77	1.61	1.98	---	---	7
8	---	---	---	---	0.030	1.01	2.04	1.70	1.55	1.97	---	---	8
9	---	---	---	---	0.029	1.18	2.09	1.94	1.66	1.73	---	---	9
10	---	---	---	---	0.029	1.31	1.86	1.84	1.64	1.67	---	---	10
11	---	---	---	---	0.030	1.02	1.65	1.85	1.59	2.01	---	---	11
12	---	---	---	---	0.075	1.43	1.60	2.00	1.65	1.85	---	---	12
13	---	---	---	---	0.114	1.66	1.67	2.09	1.63	1.71	---	---	13
14	---	---	---	---	0.124	1.59	1.76	2.12	1.67	1.38	---	---	14
15	---	---	---	---	0.156	1.38	1.83	2.00	1.71	0.927	---	---	15
16	---	---	---	---	0.155	1.22	1.82	2.01	1.74	0.750	---	---	16
17	---	---	---	---	0.238	1.04	1.95	1.96	1.69	0.534	---	---	17
18	---	---	---	---	0.301	1.13	2.04	1.85	1.74	0.348	---	---	18
19	---	---	---	0.082A	0.358	1.11	2.25	1.86	1.89	0.301	---	---	19
20	---	---	---	0.067	0.514	1.22	2.36	1.88	1.90	0.285	---	---	20
21	---	---	---	0.056	0.638	1.32	2.18	1.97	1.95	0.208	---	---	21
22	---	---	---	0.052	0.578	1.24	2.27	1.87	1.96	0.187	---	---	22
23	---	---	---	0.045	0.627	1.04	2.07	1.71	2.01	0.186	---	---	23
24	---	---	---	0.034	0.781	1.21	1.80	1.64	2.03	0.149	---	---	24
25	---	---	---	0.032	1.02	1.51	1.92	1.73	1.95	0.116	---	---	25
26	---	---	---	0.034	0.917	1.45	2.20	1.72	1.97	0.104	---	---	26
27	---	---	---	0.044	0.949	1.47	2.33	1.65	1.96	0.113	---	---	27
28	---	---	---	0.062	0.990	1.47	2.36	1.45	1.91	0.114	---	---	28
29	---	---	---	0.050	1.09	1.49	2.22	1.34	1.87	0.097	---	---	29
30	---		---	0.037	1.24	1.70	2.21	1.13	1.79	0.106	---	---	30
31	---		---		1.17		2.29	1.07		0.113A		---	31
TOTAL	---	---	---	---	12.379	37.625	63.09	56.56	51.01	29.508	---	---	TOTAL
MEAN	---	---	---	---	0.399	1.25	2.04	1.82	1.70	0.952	---	---	MEAN
MAX	---	---	---	---	1.24	1.70	2.36	2.24	2.03	2.01	---	---	MAX
MIN	---	---	---	---	0.028	0.915	1.60	1.07	1.17	0.097	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.36
MAXIMUM DAILY, 2.36 ON JUL 20
MINIMUM DAILY, 0.028 ON MAY 07

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 59 18 N
LONG 112 05 00 W
DRAINAGE AREA, 1 920 km²
A - MANUAL GAUGE

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	5 450
FEB	---	AUG	4 890
MAR	---	SEP	4 410
APR	---	OCT	2 550
MAY	1 070	NOV	---
JUN	3 250	DEC	---

TOTAL DISCHARGE, 21 600 dam³

FALLENTIMBER CREEK NEAR SUNDRE - STATION NO. 05CA012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	5.14B	2.65	31.8	4.82	6.73	2.22	1.29	---	---	1
2	---	---	---	5.44B	5.58	113 E	5.08	7.22	2.10	1.31	---	---	2
3	---	---	---	5.07B	6.46	74.4 E	12.7	7.00	2.04	1.31	---	---	3
4	---	---	---	3.88B	5.99	42.9	8.40	6.33	1.95	1.31	---	---	4
5	---	---	---	2.54B	5.34	32.9	6.03	5.33	1.82	1.33	---	---	5
6	---	---	---	2.34B	4.92	28.6	5.21	4.65	1.73	1.38	---	---	6
7	---	---	---	2.16B	4.50	24.5	8.58	4.13	1.64	1.42	---	---	7
8	---	---	---	2.06B	4.05	19.5	9.01	3.74	1.52	1.42	---	---	8
9	---	---	---	2.02B	4.14	15.9	6.50	3.46	1.45	1.43	---	---	9
10	---	---	---	1.93B	4.27	14.1	5.65	3.23	1.43	1.44	---	---	10
11	---	---	---	2.20B	4.17	14.5	4.77	3.05	1.38	1.49	---	---	11
12	---	---	---	2.31B	4.62	15.6	4.22	2.92	1.38	1.56	---	---	12
13	---	---	---	1.85B	5.20	14.2	3.84	2.82	1.47	1.49	---	---	13
14	---	---	---	1.09B	6.78	15.1	3.51	2.91	1.56	1.43	---	---	14
15	---	---	---	1.47	7.36	11.5	3.26	2.69	1.52	1.42	---	---	15
16	---	---	---	1.86	6.85	9.56	3.15	2.71	1.46	1.31	---	---	16
17	---	---	---	2.07	6.73	9.83	3.06	5.31	1.42	1.32	---	---	17
18	---	---	---	2.30	7.99	9.52	3.15	5.51	1.39	1.30	---	---	18
19	---	---	---	2.38	9.36	8.23	4.34	5.82	1.37	1.26	---	---	19
20	---	---	---	2.45	9.23	7.87	5.03	4.76	1.36	1.40	---	---	20
21	---	---	---	2.42	9.16	8.10	4.20	3.78	1.34	1.21	---	---	21
22	---	---	---	2.36	8.74	7.30	3.54	3.29	1.32	1.18	---	---	22
23	---	---	---	2.47	7.71	6.56	3.08	3.09	1.33	1.47	---	---	23
24	---	---	---	2.48	7.56	6.24	2.80	2.95	1.31	1.17	---	---	24
25	---	---	---	2.45	24.6	6.68	5.95	3.00	1.30	1.16	---	---	25
26	---	---	---	2.63	50.9	5.94	6.75	3.69	1.30	1.16	---	---	26
27	---	---	---	2.56	32.4	5.43	7.00	4.70	1.29	1.16	---	---	27
28	---	---	---	2.34	22.6	6.02	5.97	3.68	1.28	1.22	---	---	28
29	---	---	2.33B	2.06	19.7	5.85	5.63	2.95	1.27	1.17	---	---	29
30	---		4.75B	1.92	21.7	5.20	4.82	2.60	1.27	1.16A	---	---	30
31	---		6.28B		23.7		4.53	2.37		1.12E		---	31
TOTAL	---	---	---	76.25	344.98	576.83	164.66	126.42	45.22	40.80	---	---	TOTAL
MEAN	---	---	---	2.54	11.1	19.2	5.31	4.08	1.51	1.32	---	---	MEAN
MAX	---	---	---	5.44	50.9	113	12.7	7.22	2.22	1.56	---	---	MAX
MIN	---	---	---	1.09	2.65	5.20	2.88	2.37	1.27	1.12	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 6.43
MAXIMUM DAILY, 113E ON JUN 02
MINIMUM DAILY, 1.09B ON APR 14
MAXIMUM INSTANTANEOUS,
154 ON JUN 02

SUMMARY FOR THE MONTHS APR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 44 10 N
LONG 114 39 20 W
DRAINAGE AREA, 498 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	14 200
FEB	---	AUG	10 900
MAR	---	SEP	3 910
APR	6 590	OCT	3 530
MAY	29 800	NOV	---
JUN	49 800	DEC	---

TOTAL DISCHARGE, 119 000 dam³

FAWCETT LAKE NEAR SMITH - STATION NO. 07BK008

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	611.393	611.372A	611.671	611.613	611.630	611.437	611.378	611.317	---	---	1
2	---	---	611.397	611.370A	611.681	611.601	611.615	611.423	611.392	611.319	---	---	2
3	---	---	611.404	611.365	611.689	611.593	611.619	611.413	611.383	611.299	---	---	3
4	---	---	611.405	611.364	611.693	611.589	611.606	611.406	611.382	611.296	---	---	4
5	---	---	611.403	611.362	611.697	611.589	611.599	611.405	611.372	611.295	---	---	5
6	---	---	611.400	611.362	611.702	611.577	611.594	611.409	611.369	611.291	---	---	6
7	---	---	611.375	611.360	611.695	611.574	611.593	611.404	611.379	611.287	---	---	7
8	---	---	611.354	611.363	611.696	611.572	611.588	611.381	611.367	611.286	---	---	8
9	---	---	611.351	611.362	611.692	611.573	611.580	611.378	611.363	611.292	---	---	9
10	---	---	611.353	611.360	611.690	611.576	611.571	611.375	611.367	611.311	---	---	10
11	---	---	611.351	611.364	611.684	611.590	611.566	611.372	611.351	611.291	---	---	11
12	---	---	611.348	611.368	611.679	611.606	611.560	611.373	611.360	611.291	---	---	12
13	---	---	611.347	611.376	611.673	611.631	611.555	611.367	611.348	611.307	---	---	13
14	---	---	611.350	611.380	611.668	611.655	611.539	611.356	611.351	611.298	---	---	14
15	---	---	611.348	611.386	611.658	611.688	611.519	611.354	611.343	611.294	---	---	15
16	---	---	611.349	611.386	611.651	611.719	611.514	611.351	611.343	611.292	---	---	16
17	---	---	611.346	611.392	611.644	611.742	611.515	611.349	611.361	611.292	---	---	17
18	---	---	611.347	611.397	611.636	611.743	611.506	611.348	611.332	611.294	---	---	18
19	---	---	611.345	611.400	611.623	611.741	611.501	611.348	611.350	611.305	---	---	19
20	---	---	611.346	611.411	611.625	611.737	611.497	611.347	611.332	611.295	---	---	20
21	---	---	611.345	611.433	611.619	611.728	611.493	611.345	611.330	611.294	---	---	21
22	---	---	611.344	611.446	611.614	611.719	611.487	611.406	611.328	611.306	---	---	22
23	---	---	611.342A	611.455	611.613	611.715	611.483	611.416	611.341	611.298	---	---	23
24	---	---	611.351E	611.486	611.619	611.695	611.469	611.404	611.344	611.296	---	---	24
25	---	---	611.361E	611.521	611.622	611.685	611.463	611.394	611.337	611.296	---	---	25
26	---	---	611.370E	611.565	611.634	611.679	611.458	611.393	611.325	611.300	---	---	26
27	---	---	611.380E	611.606	611.640	611.674	611.458	611.401	611.322	611.301	---	---	27
28	---	611.390A	611.389A	611.635	611.643	611.659	611.447	611.403	611.318	611.296	---	---	28
29	---		611.387	611.654	611.637	611.650	611.436	611.393	611.329	611.294	---	---	29
30	---		611.381A	611.666	611.630	611.637	611.431	611.379	611.321	611.290	---	---	30
31	---		611.377A		611.623		611.433	611.377		611.287A		---	31
MEAN	---	---	611.366	611.432	611.656	611.652	611.527	611.384	611.351	611.297	---	---	MEAN
MAX	---	---	611.405	611.666	611.702	611.743	611.630	611.437	611.392	611.319	---	---	MAX
MIN	---	---	611.342	611.360	611.613	611.572	611.431	611.345	611.318	611.286	---	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MAXIMUM DAILY, 611.743 ON JUN 18

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 18 20 N
LONG 113 51 20 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

DRAINAGE AREA,
1 240 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

FIREBAG RIVER NEAR THE MOUTH - STATION NO. 07DC001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	12.5B	16.2B	125	45.1	24.1	13.6	11.2	12.4	---	---	1
2	---	---	13.3B	16.4B	125	43.4	25.2	13.2	11.5	12.6	---	---	2
3	---	---	13.7B	16.7B	126	41.3	27.1	12.6	11.5	13.7	---	---	3
4	---	---	13.9B	16.7B	130	39.5	27.7	12.7	11.5	13.2	---	---	4
5	---	---	13.7B	15.9B	133	37.5	27.7	12.5	11.4	14.6	---	---	5
6	---	---	13.8B	15.6B	135	36.0	27.7	12.0	11.4	15.2	---	---	6
7	---	---	13.9B	15.3B	137	35.2	26.8	11.4	11.3	15.4	---	---	7
8	---	---	14.1B	15.0B	138	34.2	26.3	11.0	11.2	15.8	---	---	8
9	---	---	14.2B	14.7B	137	33.3	25.6	10.6	11.2	15.8	---	---	9
10	---	---	14.5B	14.5B	134	32.6	24.6	10.2	11.2	15.8	---	---	10
11	---	---	14.6B	14.2B	129	33.1	24.4	10.3	11.2	15.9	---	---	11
12	---	---	14.8B	14.1B	123	38.8	23.4	10.3	11.8	15.7	---	---	12
13	---	---	14.8B	14.0B	116	47.2	22.1	10.4	12.0	15.7	---	---	13
14	---	---	15.4B	13.9B	110	54.1	20.5	10.5	12.0	15.7	---	---	14
15	---	---	15.8B	13.8B	103	56.6	19.8	10.2	12.3	15.8	---	---	15
16	---	---	16.1B	14.0B	96.2	56.2	19.3	10.3	12.4	14.8B	---	---	16
17	---	---	16.3B	15.0B	90.5	54.3	19.1	10.1	12.8	13.9B	---	---	17
18	---	---	16.4B	16.5B	85.7	51.8	19.4	10.4	13.1	14.3B	---	---	18
19	---	---	16.6B	19.0B	82.1	49.0	20.1	10.4	13.0	15.0B	---	---	19
20	---	---	16.7B	25.0B	79.6	46.0	20.4	10.1	13.1	14.0B	---	---	20
21	---	---	16.3B	30.0B	79.1	43.9	20.6	9.81	12.9	13.5B	---	---	21
22	---	---	15.8B	40.0B	77.8	41.2	20.2	9.95	12.9	13.0B	---	---	22
23	---	---	15.4B	71.8B	75.7	38.2	19.6	10.5	12.9	14.8B	---	---	23
24	---	---	14.9B	104 B	72.7	35.3	18.9	10.6	13.0	17.0B	---	---	24
25	---	---	14.9B	129 B	70.0	32.5	17.9	10.4	13.0	17.0B	---	---	25
26	---	---	15.1B	138 B	66.5	29.9	17.1	10.3	12.9	16.5B	---	---	26
27	---	---	15.2B	137 B	63.0	28.3	16.5	10.4	12.8	15.5B	---	---	27
28	---	10.9B	15.0B	134	58.8	27.1	15.8	10.6	12.9	14.8B	---	---	28
29	---		15.0B	130	54.7	25.2	15.0	10.7	12.7	14.0B	---	---	29
30	---		15.3B	127	50.5	23.8	14.4	10.9	12.6	13.5B	---	---	30
31	---		15.7B		47.1		14.1	11.2		13.0B		---	31
TOTAL	---	---	463.7	1 357.3	3 051.0	1 190.6	661.4	338.16	364.9	458.6	---	---	TOTAL
MEAN	---	---	15.0	45.2	98.4	39.7	21.3	10.9	12.2	14.8	---	---	MEAN
MAX	---	---	16.7	138	138	56.6	27.7	13.6	13.1	17.0	---	---	MAX
MIN	---	---	12.5	13.8	47.1	23.8	14.1	9.81	11.2	12.4	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 32.2
MAXIMUM DAILY, 138B ON APR 26
MINIMUM DAILY, 9.81 ON AUG 21
MAXIMUM INSTANTANEOUS,
152B AT 02:39 MST ON APR 26

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 38 30 N
LONG 111 10 30 W
DRAINAGE AREA, 5 990 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	57 100
FEB	---	AUG	29 200
MAR	40 100	SEP	31 500
APR	117 000	OCT	39 600
MAY	264 000	NOV	---
JUN	103 000	DEC	---

TOTAL DISCHARGE, 682 000 dam³

FISH CREEK ABOVE LITTLE FISH LAKE - STATION NO. 05CG006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.020B	0.004B	0.004	0.003	0.001	0	0	0	---	---	1
2	---	---	0.014B	0.007B	0.004	0.003	0.001	0	0	0	---	---	2
3	---	---	0.010B	0.005B	0.004	0.003	0.001	0	0	0	---	---	3
4	---	---	0.007B	0.007B	0.004	0.003	0.002	0	0	0	---	---	4
5	---	---	0.005B	0.007B	0.004	0.009	0.002	0	0	0	---	---	5
6	---	---	0.006B	0.008	0.004	0.005	0.002	0	0	0	---	---	6
7	---	---	0.014B	0.007	0.004	0.004	0.002	0	0	0	---	---	7
8	---	---	0.012B	0.007	0.004	0.003	0.003	0	0	0	---	---	8
9	---	---	0.010B	0.006B	0.004	0.003	0.004	0	0	0	---	---	9
10	---	---	0.020B	0.006	0.004	0.002	0.003	0	0	0	---	---	10
11	---	---	0.010B	0.006	0.004	0.002	0.003	0	0	0	---	---	11
12	---	---	0.005B	0.006	0.004	0.003	0.002	0	0	0	---	---	12
13	---	---	0.002B	0.005	0.004	0.004	0.002	0	0	0	---	---	13
14	---	---	0.002B	0.005	0.005	0.004	0.001	0	0	0	---	---	14
15	---	---	0.006B	0.005	0.005	0.003	0.001	0	0	0	---	---	15
16	---	---	0.006B	0.005	0.005	0.003	0.001	0	0	0	---	---	16
17	---	---	0.006B	0.005	0.004	0.002	0	0	0	0	---	---	17
18	---	---	0.007B	0.004	0.004	0.002	0	0	0	0	---	---	18
19	---	---	0.013B	0.004	0.004	0.002	0	0	0	0	---	---	19
20	---	---	0.024B	0.004	0.004	0.002	0	0	0	0	---	---	20
21	---	0 B	0.206B	0.004	0.010	0.002	0	0	0	0	---	---	21
22	---	0 B	0.108B	0.004	0.010	0.002	0	0	0	0	---	---	22
23	---	0 B	0.057B	0.004	0.007	0.002	0	0	0	0	---	---	23
24	---	0 B	0.034B	0.004	0.005	0.002	0	0	0	0	---	---	24
25	---	0 B	0.013B	0.003	0.009	0.002	0	0	0	0	---	---	25
26	---	0 B	0.020B	0.003	0.006	0.002	0	0	0	0	---	---	26
27	---	0 B	0.010B	0.004	0.005	0.002	0	0	0	0	---	---	27
28	---	0.001B	0.012B	0.004	0.004	0.002	0	0	0	0	---	---	28
29	---		0.008B	0.004	0.004	0.002	0	0	0	0	---	---	29
30	---		0.005B	0.004	0.004	0.001	0	0	0	0A	---	---	30
31	---		0.004B		0.004		0	0		0E		---	31
TOTAL	---	---	0.676	0.151	0.151	0.084	0.031	0	0	0	---	---	TOTAL
MEAN	---	---	0.022	0.005	0.005	0.003	0.001	0	0	0	---	---	MEAN
MAX	---	---	0.206	0.008	0.010	0.009	0.004	0	0	0	---	---	MAX
MIN	---	---	0.002	0.003	0.004	0.001	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.004
MAXIMUM DAILY, 0.206B ON MAR 21
MINIMUM DAILY, 0 ON JUL 17
MAXIMUM INSTANTANEOUS,
0.414B AT 16:31 MST ON MAR 21

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 23 15 N
LONG 112 12 15 W
DRAINAGE AREA, 121 km²

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2.68
FEB	---	AUG	0
MAR	59.4	SEP	0
APR	13.0	OCT	0
MAY	13.0	NOV	---
JUN	7.26	DEC	---

TOTAL DISCHARGE, 94.3 dam³

FISH CREEK AT BOW BOTTOM TRAIL - STATION NO. 05BK003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.649A	4.89	0.738	1.47	0.572	0.082	0.444	---	1
2	---	---	---	---	0.699	7.76	0.999	1.88	0.503	0.080	0.333A	---	2
3	---	---	---	---	1.58	17.9	1.24	1.84	0.449	0.090	---	---	3
4	---	---	---	---	1.95	9.91	0.805	1.50	0.367	0.101	---	---	4
5	---	---	---	---	1.70	6.15	0.775	1.25	0.349	0.352	---	---	5
6	---	---	---	---	1.56	4.61	0.755	0.962	0.308	0.166	---	---	6
7	---	---	---	---	1.30	3.88	2.41	0.766	0.264	0.212	---	---	7
8	---	---	---	---	1.34	3.36	1.03	0.586	0.213	0.288	---	---	8
9	---	---	---	---	1.17	2.97	1.21	0.475	0.193	0.299	---	---	9
10	---	---	---	---	1.19	3.17	0.934	0.471	0.175	0.316	---	---	10
11	---	---	---	---	1.26	2.76	0.706	0.339	0.156	0.406	---	---	11
12	---	---	---	---	1.62	2.45	0.528	0.273	0.367	0.472	---	---	12
13	---	---	---	---	1.44	2.24	0.418	0.251	0.222	0.444	---	---	13
14	---	---	---	---	1.53	2.81	0.396	0.215	0.131	0.416	---	---	14
15	---	---	---	---	1.50	3.06	0.277	0.188	0.117	0.381	---	---	15
16	---	---	---	---	1.42	3.78	0.212	0.173	0.189	0.593	---	---	16
17	---	---	---	---	1.29	2.87	0.188	0.357	0.187	0.355	---	---	17
18	---	---	---	---	1.29	3.26	0.776	2.67	0.187	0.320	---	---	18
19	---	---	---	---	1.47	2.49	0.756	3.92	0.157	0.326	---	---	19
20	---	---	---	---	1.10	2.10	0.441	3.63	0.153	0.329	---	---	20
21	---	---	---	---	1.07	1.78	0.644	2.43	0.132	0.342	---	---	21
22	---	---	---	---	1.09	1.67	0.557	1.74	0.130	0.338	---	---	22
23	---	---	---	---	1.02	1.47	0.448	1.61	0.154	0.324	---	---	23
24	---	---	---	---	3.94	1.29	0.358	1.40	0.153	0.307	---	---	24
25	---	---	---	---	4.28	1.14	0.803	1.62	0.171	0.327	---	---	25
26	---	---	---	---	13.3	1.01	1.31	1.35	0.116	0.317	---	---	26
27	---	---	---	---	11.1	1.06	1.69	1.60	0.115	0.294	---	---	27
28	---	---	---	---	7.14	1.01	1.82	1.44	0.111	0.318	---	---	28
29	---	---	---	---	6.65	0.875	1.88	1.11	0.101	0.306	---	---	29
30	---		---	---	9.32	1.08	1.44	0.870	0.094	0.313	---	---	30
31	---		---		6.30		1.16	0.690		0.295	---	---	31
TOTAL	---	---	---	---	92.268	104.805	27.704	39.084	6.536	9.511	---	---	TOTAL
MEAN	---	---	---	---	2.98	3.49	0.894	1.26	0.218	0.307	---	---	MEAN
MAX	---	---	---	---	13.3	17.9	2.41	3.92	0.572	0.593	---	---	MAX
MIN	---	---	---	---	0.649	0.875	0.188	0.173	0.094	0.080	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.52
MAXIMUM DAILY, 17.9 ON JUN 03
MINIMUM DAILY, 0.080 ON OCT 02
MAXIMUM INSTANTANEOUS,
22.7 AT 07:40 MST ON JUN 03

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 54 25 N
LONG 114 00 56 W

A - MANUAL GAUGE

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL 2	390
FEB	---	AUG 3	380
MAR	---	SEP	565
APR	---	OCT	822
MAY 7	970	NOV	---
JUN 9	060	DEC	---

TOTAL DISCHARGE, 24 200 dam³

FISH CREEK NEAR PRIDDIS - STATION NO. 05BK001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.060B	1.72 B	0.672	3.61	0.495	0.849	0.458	0.134	0.273A	---	1
2	---	---	0.080B	1.54 B	1.48	10.9	0.458	1.38	0.406	0.130	---	---	2
3	---	---	0.130B	1.61 B	2.06	12.6	0.644	1.46	0.395	0.125	---	---	3
4	---	---	0.190B	1.52 B	1.77	6.70	0.676	1.22	0.370	0.134	---	---	4
5	---	---	0.215B	0.993B	1.55	4.67	0.588	0.898	0.363	0.193	---	---	5
6	---	---	0.235B	0.876B	1.33	3.62	0.436	0.661	0.310	0.301	---	---	6
7	---	---	0.240B	0.893B	1.23	3.13	0.613	0.469	0.274	0.327	---	---	7
8	---	---	0.235B	0.846B	1.08	2.81	1.10	0.364	0.231	0.315	---	---	8
9	---	---	0.240B	0.680B	1.04	2.36	0.797	0.303	0.240	0.325	---	---	9
10	---	---	0.220B	0.626B	1.01	2.12	0.553	0.286	0.201	0.397	---	---	10
11	---	---	0.224B	0.430B	1.10	2.03	0.393	0.234	0.190	0.488	---	---	11
12	---	---	0.228B	0.394B	1.30	1.85	0.300	0.206	0.183	0.477	---	---	12
13	---	---	0.222B	0.478B	1.38	2.05	0.293	0.203	0.203	0.438	---	---	13
14	---	---	0.195B	0.848B	1.34	2.84	0.237	0.184	0.290	0.389	---	---	14
15	---	---	0.148B	0.880B	1.28	2.41	0.212	0.190	0.296	0.317	---	---	15
16	---	---	0.147B	0.766B	1.17	1.84	0.227	0.209	0.264	0.336	---	---	16
17	---	---	0.183B	0.619B	1.05	2.76	0.222	0.336	0.207	0.331	---	---	17
18	---	---	0.216B	0.886	0.980	2.32	0.231	1.90	0.187	0.312	---	---	18
19	---	---	0.270B	0.881	0.946	1.70	0.481	4.19	0.185	0.337	---	---	19
20	---	0.002B	0.430B	0.887	0.935	1.44	0.697	2.66	0.194	0.385	---	---	20
21	---	0.002B	0.490B	0.799	0.976	1.45	0.556	1.75	0.214	0.307	---	---	21
22	---	0.002B	0.517B	0.771	0.912	1.26	0.412	1.22	0.206	0.292	---	---	22
23	---	0.003B	0.500B	0.682	1.00	1.08	0.298	0.928	0.239	0.327	---	---	23
24	---	0.030B	0.400B	0.624	1.11	0.916	0.278	0.817	0.190	0.262	---	---	24
25	---	0.040B	0.300B	0.587	6.21	0.859	0.486	0.975	0.187	0.279	---	---	25
26	---	0.035B	0.200B	0.570	10.5	0.759	1.39	1.35	0.150	0.284	---	---	26
27	---	0.025B	0.220B	0.621	7.24	0.697	1.72	1.39	0.138	0.281	---	---	27
28	---	0.022B	0.226B	0.648	5.12	0.697	1.89	1.05	0.142	0.293	---	---	28
29	---		0.882B	0.626	7.02	0.587	1.46	0.793	0.125	0.267	---	---	29
30	---		2.41 B	0.575	6.50	0.543	1.03	0.641	0.137	0.249	---	---	30
31	---		2.87 B		4.83		0.790	0.530		0.271	---	---	31
TOTAL	---	---	13.223	24.586	76.121	82.688	19.963	29.646	7.175	9.303	---	---	TOTAL
MEAN	---	---	0.427	0.820	2.46	2.76	0.644	0.956	0.239	0.300	---	---	MEAN
MAX	---	---	2.87	1.72	10.5	12.6	1.89	4.19	0.458	0.488	---	---	MAX
MIN	---	---	0.060	0.394	0.672	0.543	0.212	0.184	0.125	0.125	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.07
MAXIMUM DAILY, 12.6 ON JUN 03
MINIMUM DAILY, 0.060B ON MAR 01
MAXIMUM INSTANTANEOUS,
20.0 AT 20:41 MST ON JUN 02

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 53 10 N
LONG 114 13 35 W
DRAINAGE AREA, 259 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL 1	720
FEB	---	AUG 2	560
MAR 1	140	SEP	620
APR 2	120	OCT	804
MAY 6	580	NOV	---
JUN 7	140	DEC	---

TOTAL DISCHARGE, 22 700 dam³

FLAT CREEK NEAR BOYLE - STATION NO. 07CA003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.17 B	0.279	0.076	0.007	0	0	0	---	---	1
2	---	---	0 B	0.875B	0.258	0.058	0.008	0	0	0	---	---	2
3	---	---	0 B	0.628B	0.240	0.062	0.431	0	0	0	---	---	3
4	---	---	0 B	0.539B	0.243	0.051	1.25	0	0	0	---	---	4
5	---	---	0 B	0.542B	0.207	0.061	1.01	0	0	0	---	---	5
6	---	---	0 B	0.353	0.201	0.053	0.681	0	0	0	---	---	6
7	---	---	0 B	0.254	0.212	0.054	0.640	0	0	0	---	---	7
8	---	---	0 B	0.317	0.239	0.049	0.603	0	0	0	---	---	8
9	---	---	0 B	0.275	0.262	0.040	0.380	0	0	0	---	---	9
10	---	---	0 B	0.260B	0.240	0.036	0.261	0	0	0	---	---	10
11	---	---	0 B	0.240B	0.224	0.044	0.167	0	0	0	---	---	11
12	---	---	0 B	0.226B	0.194	0.044	0.160	0	0	0	---	---	12
13	---	---	0 B	0.212B	0.176	0.054	0.094	0	0	0	---	---	13
14	---	---	0 B	0.231B	0.167	0.059	0.061	0	0	0	---	---	14
15	---	---	0 B	0.219B	0.164	0.049	0.039	0	0	0	---	---	15
16	---	---	0 B	0.190B	0.166	0.054	0.031	0	0	0	---	---	16
17	---	---	0 B	0.160	0.140	0.056	0.020	0	0	0	---	---	17
18	---	---	0 B	0.170	0.131	0.044	0.016	0	0	0	---	---	18
19	---	---	0.030B	0.180	0.121	0.047	0.071	0	0	0	---	---	19
20	---	---	0.050B	0.190	0.111	0.064	0.020	0	0	0	---	---	20
21	---	---	0.020B	0.216	0.096	0.053	0.010	0	0	0	---	---	21
22	---	---	0.006B	0.224	0.095	0.035	0.006	0	0	0	---	---	22
23	---	---	0.004B	0.225	0.086	0.022	0.005	0	0	0	---	---	23
24	---	---	0.002B	0.138	0.091	0.015	0.035	0	0	0	---	---	24
25	---	---	0.002B	0.468	0.113	0.005	0.024	0	0	0	---	---	25
26	---	---	0.004B	0.340	0.169	0.003	0.039	0	0	0	---	---	26
27	---	---	0.040B	0.361	0.093	0.003	0.020	0	0	0	---	---	27
28	---	---	0.368B	0.354	0.114	0.002	0.011	0	0	0	---	---	28
29	---	---	1.42 B	0.315	0.176	0.008	0.005	0	0	0B	---	---	29
30	---		1.55 B	0.292	0.097	0.012	0.002	0	0	0B	---	---	30
31	---		1.30 B		0.091		0.001	0		0B		---	31
TOTAL	---	---	4.796	10.403	5.196	1.213	6.108	0	0	0	---	---	TOTAL
MEAN	---	---	0.155	0.347	0.168	0.040	0.197	0	0	0	---	---	MEAN
MAX	---	---	1.55	1.17	0.279	0.076	1.25	0	0	0	---	---	MAX
MIN	---	---	0	0.160	0.086	0.002	0.001	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.113
MAXIMUM DAILY, 1.55B ON MAR 30
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
3.15B AT 02:30 MST ON MAR 30

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 35 15 N
LONG 112 54 20 W
DRAINAGE AREA, 184 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	528
FEB	---	AUG	0
MAR	414	SEP	0
APR	899	OCT	0
MAY	449	NOV	---
JUN	105	DEC	---

TOTAL DISCHARGE, 2 400 dam³

FORSTER RESERVOIR NEAR CESSFORD - STATION NO. 05CH013

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	703.852E	704.055	704.529	704.858	702.919	703.287	704.231	704.144	---	---	1
2	---	---	703.851E	704.065	704.590	704.809	702.947	703.320	704.218	704.137	---	---	2
3	---	---	703.850E	704.070	704.654	704.745	703.001	703.377	704.205	704.116	---	---	3
4	---	---	703.850E	704.072	704.733	704.674	703.000	703.424	704.198	704.109	---	---	4
5	---	---	703.849E	704.072	704.811	704.603	702.989	703.464	704.192	704.104	---	---	5
6	---	---	703.848E	704.076	704.883	704.525	703.008	703.503	704.188	704.090	---	---	6
7	---	---	703.847A	704.080	704.941	704.451	703.044	703.542	704.169	704.090	---	---	7
8	---	---	703.856	704.081	704.996	704.389	703.094	703.557	704.136	704.097	---	---	8
9	---	---	703.873	704.084	705.062	704.336	703.106	703.563	704.154	704.095	---	---	9
10	---	---	703.883	704.087	705.128	704.285	703.073	703.573	704.173	704.080	---	---	10
11	---	---	703.900	704.093	705.181	704.230	703.012	703.555	704.194	704.065	---	---	11
12	---	---	703.912	704.092	705.246	704.204	702.918	703.557	704.219	704.064	---	---	12
13	---	---	703.921	704.089	705.329	704.169	702.812	703.510	704.270	704.062	---	---	13
14	---	---	703.926	704.087	705.393	704.132	702.724	703.484	704.297	704.058	---	---	14
15	---	---	703.927	704.084	705.426	704.108	702.659	703.473	704.293	704.052	---	---	15
16	---	---	703.928	704.079	705.430	704.092	702.698	703.466	704.279	704.055	---	---	16
17	---	---	703.929	704.075	705.412	704.051	702.768	703.470	704.251	704.057	---	---	17
18	---	---	703.935	704.078	705.366	703.987	702.828	703.489	704.207	704.058	---	---	18
19	---	---	703.943	704.078	705.310	703.877	702.902	703.548	704.154	704.061	---	---	19
20	---	---	703.947	704.074	705.267	703.741	702.951	703.630	704.177	704.055	---	---	20
21	---	---	703.953	704.073	705.237	703.623	702.998	703.726	704.194	704.053	---	---	21
22	---	---	703.957	704.068	705.194	703.509	703.023	703.830	704.190	704.052	---	---	22
23	---	---	703.963	704.066	705.160	703.385	703.041	703.921	704.195	704.048	---	---	23
24	---	---	703.973	704.080	705.135	703.299	703.063	703.995	704.195	704.048	---	---	24
25	---	---	703.982	704.144	705.127	703.226	703.078	704.084	704.191	704.045	---	---	25
26	---	---	703.989	704.208	705.108	703.120	703.104	704.164	704.180	704.048	---	---	26
27	---	---	703.994	704.267	705.089	703.009	703.136	704.222	704.174	704.021	---	---	27
28	---	703.853A	704.004	704.335	705.067	702.905	703.170	704.246	704.162	703.985A	---	---	28
29	---		704.021	704.409	705.016	702.885	703.199	704.249	704.161	703.984E	---	---	29
30	---		704.038	704.466	704.962	702.893	703.228	704.246	704.153	703.983E	---	---	30
31	---		704.044		704.905		703.258	704.237		703.982E		---	31
MEAN	---	---	703.927	704.123	705.087	703.937	702.992	703.700	704.200	704.061	---	---	MEAN
MAX	---	---	704.044	704.466	705.430	704.858	703.258	704.249	704.297	704.144	---	---	MAX
MIN	---	---	703.847	704.055	704.529	702.885	702.659	703.287	704.136	703.982	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 705.430 ON MAY 16

MAXIMUM INSTANTANEOUS,
705.438 AT 15:08 MST ON MAY 16

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 58 51 N
LONG 111 45 56 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA,
303 km²

FREEMAN RIVER NEAR FORT ASSINIBOINE - STATION NO. 07AH001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.20B	2.28B	8.68	8.50	5.47	2.78	5.74	1.23	1.16B	---	1
2	---	---	1.18B	2.50B	8.53	9.58	5.05	2.52	9.28	1.26	---	---	2
3	---	---	1.17B	2.85B	9.89	8.59	10.9	2.32	7.42	1.27	---	---	3
4	---	---	1.14B	3.15B	9.34	8.17	34.7	2.21	8.62	1.33	---	---	4
5	---	---	1.12B	3.45B	9.04	13.4	28.5	2.11	8.50	1.58	---	---	5
6	---	---	1.10B	3.60B	10.7	22.7	23.5	2.00	6.88	1.54	---	---	6
7	---	---	1.07B	3.45B	10.7	15.8	19.3	1.87	5.92	2.09	---	---	7
8	---	---	1.06B	3.30B	10.4	15.9	18.2	1.66	3.58	1.63	---	---	8
9	---	---	1.05B	3.58B	9.68	15.6	7.81	1.64	2.94	1.69	---	---	9
10	---	---	1.03B	2.60B	0.86	13.9	12.2	1.63	2.44	1.85	---	---	10
11	---	---	1.02B	2.66B	9.04	12.9	9.82	1.61	2.36	1.84	---	---	11
12	---	---	1.04B	2.64B	8.86	16.9	8.29	1.26	2.36	1.76	---	---	12
13	---	---	1.08B	2.20B	7.18	30.9	7.42	1.12	2.29	2.20	---	---	13
14	---	---	1.09B	2.54B	8.08	35.3	7.00	1.05	2.48	2.84	---	---	14
15	---	---	1.11B	2.66B	7.54	29.6	6.25	1.87	2.05	2.50	---	---	15
16	---	---	1.12B	2.88B	8.02	23.2	6.01	1.85	2.05	2.14	---	---	16
17	---	---	1.14B	4.15B	7.48	18.4	5.53	1.85	1.90	2.12	---	---	17
18	---	---	1.13B	4.40B	7.54	15.0	5.13	1.85	1.78	2.14	---	---	18
19	---	---	1.12B	5.13B	7.54	13.6	5.26	1.84	1.81	2.11	---	---	19
20	---	---	1.11B	7.75B	9.34	11.8	5.38	1.81	1.84	2.09	---	---	20
21	---	---	1.09B	12.8 B	10.2	10.4	4.90	1.79	1.90	1.66	---	---	21
22	---	0.802B	1.02B	16.9 B	11.4	8.35	4.35	1.85	1.97	1.58	---	---	22
23	---	---	1.03B	15.9	14.5	8.35	4.35	2.02	1.64	1.76E	---	---	23
24	---	---	1.04B	17.0	13.1	7.18	4.43	1.78	1.58	1.93	---	---	24
25	---	---	1.12B	16.2	12.7	6.52	3.48	2.08	1.58	1.73	---	---	25
26	---	---	1.22B	16.2	12.6	6.22	3.46	2.72	1.63	1.63	---	---	26
27	---	---	1.32B	16.2	12.2	5.95	2.70	2.32	1.49	1.43	---	---	27
28	---	---	1.43B	11.9	10.4	6.04	2.92	2.08	1.45	1.39	---	---	28
29	---		1.57B	9.61	9.16	5.71	2.92	2.30	1.30	1.32B	---	---	29
30	---		1.75B	9.61	8.62	5.71	2.98	2.58	1.24	1.30B	---	---	30
31	---		2.00B		8.56		2.92	3.06		1.26B		---	31
TOTAL	---	---	36.67	210.09	299.88	410.17	271.13	61.43	98.02	54.20	---	---	TOTAL
MEAN	---	---	1.18	7.00	9.67	13.7	8.75	1.98	3.27	1.75	---	---	MEAN
MAX	---	---	2.00	17.0	14.5	35.3	34.7	3.06	9.28	2.84	---	---	MAX
MIN	---	---	1.02	2.20	7.18	5.71	2.70	1.05	1.24	1.23	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN, 5.88
MAXIMUM DAILY, 35.3 ON JUN 14
MINIMUM DAILY, 1.02B ON MAR 11
MAXIMUM INSTANTANEOUS
35.9A ON JUN 14

TYPE OF GAUGE - MANUAL
LOCATION - LAT 54 21 52 N
LONG 114 54 13 W
DRAINAGE AREA, 1 660 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	23 400
FEB	---	AUG	5 310
MAR	3 170	SEP	8 470
APR	18 200	OCT	4 680
MAY	25 900	NOV	---
JUN	35 400	DEC	---

TOTAL DISCHARGE, 125 000 dam³

GHOST LAKE NEAR COCHRANE - STATION NO. 05BE005

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 191.18	1 191.11	1 191.53	1 191.52	1 189.35	1 190.86	1 190.97	1 191.30	1 191.01	1 190.88	1 191.56	1 191.31	1
2	1 191.10	1 191.18	1 191.51	1 191.50	1 189.23	1 191.49	1 190.92	1 191.35	1 191.02	1 190.90	1 191.58	1 191.15	2
3	1 191.04	1 191.27	1 191.47	1 191.46	1 189.09	1 190.61	1 190.79	1 191.30	1 191.00	1 190.95	1 191.62	1 191.15	3
4	1 191.01	1 191.35	1 191.44	1 191.41	1 189.05	1 190.12	1 190.79	1 191.02	1 191.01	1 191.00	1 191.59	1 191.14	4
5	1 191.11	1 191.37	1 191.39	1 191.34	1 188.96	1 189.90	1 190.70	1 190.84	1 190.98	1 191.12	1 191.55	1 191.38	5
6	1 191.16	1 191.41	1 191.38	1 191.27	1 188.89	1 189.66	1 190.64	1 190.92	1 191.01	1 191.22	1 191.54	1 191.32	6
7	1 191.19	1 191.44	1 191.37	1 191.19	1 188.85	1 189.59	1 190.83	1 191.15	1 191.08	1 191.27	1 191.51	1 191.48	7
8	1 191.22	1 191.45	1 191.38	1 191.12	1 188.99	1 189.53	1 190.87	1 191.17	1 191.10	1 191.24	1 191.53	1 191.32	8
9	1 191.22	1 191.45	1 191.41	1 191.00	1 188.99	1 189.47	1 190.84	1 191.28	1 191.06	1 191.25	1 191.55	1 191.32	9
10	1 191.20	1 191.47	1 191.42	1 190.90	1 189.03	1 189.36	1 190.83	1 191.35	1 190.99	1 191.30	1 191.52	1 191.32	10
11	1 191.11	1 191.50	1 191.42	1 190.81	1 189.08	1 189.42	1 190.77	1 191.35	1 191.03	1 191.34	1 191.52	1 191.36	11
12	1 191.06	1 191.48	1 191.42	1 190.77	1 189.13	1 189.52	1 190.83	1 191.24	1 191.07	1 191.40	1 191.46	1 191.38	12
13	1 191.06	1 191.42	1 191.44	1 190.71	1 189.11	1 189.45	1 190.84	1 191.15	1 191.08	1 191.44	1 191.49	1 191.30	13
14	1 191.15	1 191.39	1 191.42	1 190.59	1 189.17	1 189.29	1 190.89	1 191.14	1 191.12	1 191.40	1 191.50	1 191.19	14
15	1 191.20	1 191.34	1 191.43	1 190.49	1 189.20	1 189.26	1 190.87	1 191.09	1 191.15	1 191.41	1 191.52	1 191.25	15
16	1 191.27	1 191.31	1 191.37	1 190.36	1 189.15	1 189.42	1 190.81	1 191.06	1 191.11	1 191.46	1 191.55	1 191.24	16
17	1 191.25	1 191.25	1 191.38	1 190.20	1 189.05	1 189.69	1 190.89	1 191.15	1 191.09	1 191.48	1 191.51	1 191.22	17
18	1 191.16	1 191.23	1 191.39	1 190.13	1 188.95	1 189.84	1 190.79	1 191.27	1 191.12	1 191.48	1 191.39	1 191.27	18
19	1 191.10	1 191.23	1 191.40	1 190.05	1 188.92	1 189.87	1 190.69	1 191.24	1 191.17	1 191.44	1 191.27	1 191.17	19
20	1 191.08	1 191.26	1 191.38	1 189.94	1 188.83	1 189.84	1 190.61	1 191.21	1 191.43	1 191.25	1 191.12		20
21	1 191.11	1 191.36	1 191.37	1 189.91	1 188.85	1 189.68	1 190.64	1 191.20	1 191.20	1 191.33	1 191.21	1 191.03	21
22	1 191.24	1 191.41	1 191.35	1 189.87	1 188.84	1 189.57	1 190.64	1 191.15	1 191.15	1 191.27	1 191.19	1 191.02	22
23	1 191.27	1 191.44	1 191.36	1 189.77	1 188.87	1 189.63	1 190.78	1 191.07	1 191.07	1 191.37	1 191.23	1 190.96	23
24	1 191.27	1 191.48	1 191.37	1 189.73	1 188.87	1 189.90	1 190.91	1 191.06	1 191.07	1 191.37	1 191.26	1 190.94	24
25	1 191.29	1 191.48	1 191.37	1 189.65	1 189.27	1 190.16	1 191.00	1 191.04	1 191.03	1 191.46	1 191.16	1 190.93	25
26	1 191.35	1 191.48	1 191.37	1 189.63	1 190.24	1 190.25	1 191.04	1 191.00	1 191.02	1 191.49	1 191.00	1 190.94	26
27	1 191.35	1 191.51	1 191.44	1 189.58	1 190.52	1 190.43	1 191.12	1 191.01	1 191.01	1 191.48	1 191.16	1 190.93	27
28	1 191.36	1 191.50	1 191.47	1 189.58	1 190.55	1 190.56	1 191.16	1 190.99	1 190.98	1 191.48	1 191.25	1 190.95	28
29	1 191.30		1 191.45	1 189.48	1 190.45	1 190.64	1 191.10	1 190.96	1 190.92	1 191.46	1 191.30	1 190.97	29
30	1 191.23		1 191.50	1 189.34	1 190.36	1 190.87	1 191.00	1 190.96	1 190.87	1 191.50	1 191.33	1 190.93	30
31	1 191.16		1 191.54		1 190.52		1 191.07	1 190.95				1 190.91	31
MEAN	1 191.18	1 191.38	1 191.42	1 190.44	1 189.30	1 189.92	1 190.86	1 191.13	1 191.06	1 191.33	1 191.40	1 191.16	MEAN
MAX	1 191.36	1 191.51	1 191.54	1 191.52	1 190.53	1 191.49	1 191.16	1 191.35	1 191.21	1 191.50	1 191.62	1 191.48	MAX
MIN	1 191.01	1 191.11	1 191.35	1 189.34	1 188.83	1 189.26	1 190.61	1 190.84	1 190.87	1 190.88	1 191.00	1 190.91	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MEAN, 1 190.88
MAXIMUM DAILY, 1 191.62 ON NOV 03
MINIMUM DAILY, 1 188.83 ON MAY 20

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 13 00 N
LONG 114 43 00 W
DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

A - MANUAL GAUGE
E - ESTIMATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

DRAINAGE AREA,
6 480 km²

GHOST RIVER ABOVE WAIPAROUS CREEK - STATION NO. 05BG010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2.83	1.86B	1.74	1.80	1.57	55.1	6.70	6.36	5.26	4.48	4.01	3.13	1
2	2.79	2.16B	1.76	1.83	1.92	56.2	6.96	6.13	5.11	4.45	3.86	3.09	2
3	2.76	2.10	1.75	1.88	2.15	13.9	6.86	6.03	5.17	4.38	3.78	3.04	3
4	2.77	2.05	1.70	1.90	1.94	19.9	6.52	5.84	5.15	4.47	3.85	3.03	4
5	2.74	2.01	1.73	1.82	1.76	14.5	6.43	5.93	5.06	4.55	3.81	3.05	5
6	2.71	2.03	1.72	1.85	1.72	8.49	6.52	5.90	4.92	4.52	3.80	2.97	6
7	2.73	2.03B	1.72	1.89	1.68	7.49	6.62	5.92	4.85	4.39	3.79	3.01	7
8	2.67	1.94B	1.72	1.84	1.67	6.80	6.49	5.84	4.85	4.39	3.73	2.98	8
9	2.60B	1.90B	1.70	1.77	1.65	7.84	6.17	5.97	4.89	4.32	3.73	2.96	9
10	2.58B	1.94	1.72	1.63B	1.63	12.0	5.98	5.92	4.87	4.15	3.75	2.94	10
11	2.53B	1.92	1.73	1.69B	1.78	11.9	5.94	5.97	4.80	4.33	3.74	2.89	11
12	2.57	1.93	1.69	1.74	2.05	8.99	5.82	6.50	4.87	4.27	3.67	2.86	12
13	2.54	1.59B	1.65B	1.79	2.27	8.96	5.85	6.11	4.89	4.19	3.72	2.83	13
14	2.53	1.59B	1.68	1.88	2.84	8.75	5.84	5.93	4.78	4.20	3.72	2.80	14
15	2.49	1.66B	1.66	1.89	2.70	9.94	5.82	5.88	4.71	4.23	3.60	2.80	15
16	2.49	1.66B	1.63	1.81	2.39	9.94	5.84	5.87	4.65	4.22	3.57	2.79	16
17	2.39B	1.55B	1.65	1.75	2.16	9.08	5.72	6.65	4.59	4.14	3.50	2.79	17
18	2.41	1.66B	1.68	1.72	2.10	8.45	5.76	6.77	4.48	4.16	3.43	2.76	18
19	2.35	1.62B	1.71	1.70	2.15	7.44	5.92	6.26	4.50	4.19	3.35	2.73B	19
20	2.36	1.89	1.70	1.70	2.17	8.97	5.71	5.86	4.42	4.13	3.28	2.69B	20
21	2.36	1.86	1.69	1.60	2.38	6.85	5.80	5.85	4.31	4.09	3.22	2.66B	21
22	2.29	1.81	1.73	1.55	2.25	7.22	5.72	5.82	4.24	4.09	3.17	2.66B	22
23	2.28	1.77	1.50B	1.52	2.00	8.37	5.67	5.77	4.34	4.06	3.17	2.66B	23
24	2.29B	1.76	1.50B	1.50	2.35	8.14	5.91	5.68	4.36	4.01	3.15	2.66B	24
25	2.25	1.75	1.55B	1.49	75.6	7.91	6.27	5.94	4.38	3.98	3.12	2.66B	25
26	2.22	1.77	1.65	1.53	64.8	7.23	6.25	6.25	4.41	3.96	3.09	2.70	26
27	2.20B	1.75	1.61	1.52	22.4	7.00	6.27	5.95	4.41	3.97	3.10	2.69	27
28	2.19	1.70	1.59	1.55	19.7	6.92	6.33	5.74	4.39	4.01	3.14	2.62	28
29	2.09B		1.62	1.55	16.5	6.81	6.17	5.64	4.44	4.00	3.14	2.61	29
30	2.03B		1.73	1.55	26.3	6.82	6.12	5.49	4.46	3.95	3.19	2.61	30
31	1.98B		1.80		27.1		6.75	5.36		4.02		2.60	31
TOTAL	76.02	51.46	52.01	51.24	301.68	367.51	190.73	185.13	140.56	130.30	105.18	87.27	TOTAL
MEAN	2.45	1.84	1.68	1.71	9.73	12.3	6.15	5.97	4.69	4.20	3.51	2.82	MEAN
MAX	2.83	2.16	1.80	1.90	75.6	56.1	6.96	6.77	5.26	4.55	4.01	3.13	MAX
MIN	1.98	1.55	1.50	1.49	1.57	6.80	5.67	5.36	4.24	3.95	3.09	2.60	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.76
MAXIMUM DAILY, 75.6 ON MAY 25
MINIMUM DAILY, 1.49 ON APR 25
MAXIMUM INSTANTANEOUS,
202 AT 21:12 MST ON MAY 25

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 16 15 N
LONG 114 55 18 W
DRAINAGE AREA, 486 km²

B - ICE CONDITIONS

REGULATED SINCE 1941

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	6 570	JUL	16 500
FEB	4 450	AUG	16 000
MAR	4 490	SEP	12 100
APR	4 430	OCT	11 300
MAY	26 100	NOV	9 090
JUN	31 800	DEC	7 540

TOTAL DISCHARGE, 150 000 dam³

GHOST RIVER DIVERSION TO LAKE MINNEWANKA - STATION NO. 05BG003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0	0	0	0 E	0.255	1.90E	7.39	4.64	1.73	1.05	0.680	0B	1
2	0	0	0	0	0.283	3.45E	6.54	4.16	1.67	1.02	0.651E	0	2
3	0	0	0	0	0.283	2.38	6.74	3.77	1.67	1.02	0.623	0	3
4	0	0	0	0	0.340	1.73	6.31	3.51	1.61	1.05	0.595	0	4
5	0	0	0	0	0.680	1.76	6.17	3.23	1.56	1.08	0.538	0	5
6	0	0	0	0.028E	0.934	1.61	6.97	3.06	1.53	1.08	0.510	0	6
7	0	0	0	0.028	0.651	1.70	7.45	2.86	1.50	1.05	0.481	0	7
8	0	0	0	0.028	0.566	1.73	7.25	2.75	1.47	1.02	0.453	0	8
9	0	0	0	0.057	0.538	1.78	6.77	2.63	1.44	0.991	0.425	0	9
10	0	0	0	0.057	0.538	2.21	6.48	2.55	1.42	1.02	0.396	0	10
11	0	0	0	0.057	0.538	2.32	6.29	2.44	1.39	0.991	0.368	0	11
12	0	0	0	0.057	0.595	1.93	6.29	2.32	1.39	0.963	0.340	0	12
13	0	0	0	0.057	0.651	2.32	6.06	2.35	1.36	0.934	0.311	0	13
14	0	0	0	0.057	0.850	5.41	5.52	2.29	1.33	0.906	0.283	0	14
15	0	0	0	0.085	0.963	7.79	4.84	2.21	1.30	0.906	0.255E	0B	15
16	0	0	0	0.085	0.963	8.27	4.53	2.15	1.30	0.850	0.227	0	16
17	0	0	0	0.085	1.05	8.55	4.05	2.32	1.27	0.850	0.198	0	17
18	0	0	0	0.113	1.19	8.07	3.79	2.72	1.27	0.850	0.198	0	18
19	0	0	0	0.113	1.19	4.33	4.73	2.83	1.25	0.821	0.170	0	19
20	0	0	0	0.113	1.22	4.64	4.73	2.61	1.22	0.821	0.142	0	20
21	0	0	0	0.142	1.36	8.16	3.99	2.41	1.22	0.821	0.142	0	21
22	0	0	0	0.142	1.47	8.41	3.65	2.29	1.22	0.765	0.113	0	22
23	0	0	0	0.142	2.12	8.30	3.40	2.15	1.19	0.765	0.085	0	23
24	0	0	0	0.170	4.84	7.76	3.43	2.07	1.13	0.736	0.085E	0	24
25	0	0	0	0.170	5.97	7.82	5.95	2.07	1.13	0.736	0.057B	0	25
26	0	0	0	0.198	3.11 E	7.79	6.99	2.04	1.10	0.765	0.057	0	26
27	0	0	0	0.198	1.93 E	7.70	6.60	1.95	1.10	0.736	0.028	0	27
28	0	0	0	0.198	1.64 E	7.45	6.34	1.93	1.08	0.708	0.028	0	28
29	0		0	0.198	1.78 E	7.14	5.92	1.84	1.05	0.708	0	0	29
30	0		0	0.227	1.36 E	7.33	5.72	1.78	1.05	0.708	0 B	0	30
31	0		0		0.963E		5.07	1.73		0.680		0B	31
TOTAL	0	0	0	2.805	40.821	151.74	175.96	79.66	39.95	27.401	8.439	0	TOTAL
MEAN	0	0	0	0.094	1.32	5.06	5.68	2.57	1.33	0.884	0.281	0	MEAN
MAX	0	0	0	0.227	5.97	8.55	7.45	4.64	1.73	1.08	0.680	0	MAX
MIN	0	0	0	0	0.255	1.61	3.40	1.73	1.05	0.680	0	0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.44
MAXIMUM DAILY, 8.55 ON JUN 17
MINIMUM DAILY, 0 ON JAN 01

DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 51 17 00 N
LONG 115 10 00 W

B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	0	JUL	15 200
FEB	0	AUG	6 880
MAR	0	SEP	3 450
APR	242	OCT	2 370
MAY	3 530	NOV	729
JUN	13 100	DEC	0

TOTAL DISCHARGE, 45 500 dam³

GHOST RIVER NEAR BLACK ROCK MOUNTAIN - STATION NO. 05BG002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.453E	0.680	33.1	9.54	5.55	2.04	1.30	1.08	---	1
2	---	---	---	0.453	0.708	35.4	7.73	5.01	1.98	1.27	1.05 E	---	2
3	---	---	---	0.481	0.700	26.3	8.21	4.42	1.98	1.27	1.05	---	3
4	---	---	---	0.481	0.821	21.9	7.56	4.08	1.93	1.30	1.05	---	4
5	---	---	---	0.510	1.50	16.2	7.31	3.74	1.87	1.39	0.991	---	5
6	---	---	---	0.510E	1.95	13.8	9.80	3.54	1.84	1.36	0.963	---	6
7	---	---	---	0.538	1.36	12.7	13.8	3.34	1.78	1.33	0.934	---	7
8	---	---	---	0.538	1.13	11.3	11.6	3.17	1.78	1.30	0.934	---	8
9	---	---	---	0.538	1.05	12.8	9.06	3.06	1.76	1.30	0.906	---	9
10	---	---	---	0.538	1.02	16.9	8.01	2.94	1.73	1.36	0.906	---	10
11	---	---	---	0.538	1.02	15.1	7.42	2.83	1.70	1.30	0.850	---	11
12	---	---	---	0.538	1.08	8.35	7.22	2.78	1.67	1.30	0.850	---	12
13	---	---	---	0.538	1.19	6.63	6.85	2.78	1.64	1.27	0.821	---	13
14	---	---	---	0.538	1.47	6.85	6.26	2.69	1.61	1.25	0.793	---	14
15	---	---	---	0.566	1.61	10.1	5.52	2.61	1.59	1.25	0.793E	---	15
16	---	---	---	0.566	1.61	13.2	5.13	2.52	1.59	1.22	0.793	---	16
17	---	---	---	0.595	1.70	16.8	4.62	2.72	1.56	1.19	0.736	---	17
18	---	---	---	0.623	1.87	16.3	4.30	3.17	1.53	1.19	0.708	---	18
19	---	---	---	0.651	1.81	13.6	5.41	3.34	1.53	1.16	0.680	---	19
20	---	---	---	0.680	1.84	11.5	5.41	3.06	1.50	1.16	0.680	---	20
21	---	---	---	0.680	1.98	12.6	4.56	2.83	1.50	1.16	0.651	---	21
22	---	---	---	0.680	2.12	17.4	4.16	2.69	1.47	1.13	0.623	---	22
23	---	---	---	0.680	2.97	21.4	3.88	2.52	1.44	1.13	0.595	---	23
24	---	---	---	0.680	3.16	19.7	3.91	2.46	1.42	1.10	0.595	---	24
25	---	---	---	0.680	79.9	16.8	6.99	2.46	1.39	1.10	0.595	---	25
26	---	---	---	0.680	54.4	14.7	9.83	2.44	1.36	1.16	0.538	---	26
27	---	---	---	0.680	27.0	12.4	8.38	2.32	1.36	1.13	0.510	---	27
28	---	---	---	0.680	22.0	10.5	7.67	2.27	1.33	1.10	0.510	---	28
29	---	---	---	0.651	30.6	9.37	7.02	2.21	1.30	1.10	0.481	---	29
30	---		---	0.651	28.6	9.97	6.80	2.16	1.30	1.10	0.453E	---	30
31	---		---		22.9		6.03	2.07		1.08		---	31
TOTAL	---	---	---	17.615	305.957	463.67	219.99	93.71	48.48	37.76	23.119	---	TOTAL
MEAN	---	---	---	0.587	9.87	15.5	7.10	3.02	1.62	1.22	0.771	---	MEAN
MAX	---	---	---	0.680	79.9	35.4	13.8	5.55	2.04	1.39	1.08	---	MAX
MIN	---	---	---	0.453	0.680	6.63	3.88	2.07	1.30	1.08	0.453	---	MIN

SUMMARY FOR THE MONTHS APR TO NOV

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.96
MAXIMUM DAILY, 79.9 ON MAY 25
MINIMUM DAILY, 0.453E ON APR 01

TYPE OF GAUGE - MANUAL
LOCATION - LAT 51 18 00 N
LONG 115 11 00 W
DRAINAGE AREA, 211 km²

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	19 000
FEB	---	AUG	8 100
MAR	---	SEP	4 190
APR	1 520	OCT	3 260
MAY	26 400	NOV	2 000
JUN	40 100	DEC	---

TOTAL DISCHARGE, 105 000 dam³

DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

GHOST TAILRACE - STATION NO. 05BE999

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	65.3	58.6	61.8	57.4	74.2	390	298	156	90.6	69.2	71.4	68.0	1
2	65.7	53.5	63.5	64.7	73.5	484	316	177	87.9	69.3	70.5	57.8	2
3	61.7	53.8	63.8	68.5	70.8	515	308	192	87.8	66.9	64.9	62.6	3
4	57.7	51.0	62.5	73.8	69.9	473	295	215	92.1	66.0	58.6	58.0	4
5	56.5	56.3	63.7	75.4	61.5	437	290	186	91.2	62.8	70.2	61.0	5
6	58.2	56.6	65.0	74.1	60.9	383	272	144	90.6	64.0	60.9	83.6	6
7	53.7	59.6	62.6	69.6	69.2	325	256	121	90.8	64.1	84.8	52.1	7
8	56.9	63.8	63.1	62.1	68.6	297	276	145	87.6	63.7	65.8	77.8	8
9	61.6	62.1	60.8	64.4	69.8	288	286	144	88.3	63.6	69.8	51.1	9
10	64.8	56.5	56.6	74.7	71.4	287	284	145	87.5	64.1	66.2	62.0	10
11	63.2	53.8	55.9	74.4	73.2	286	273	153	85.2	69.9	54.9	73.8	11
12	59.9	56.7	59.4	70.7	68.3	293	265	154	91.8	68.7	62.3	68.0	12
13	57.1	62.6	62.2	65.5	60.9	296	264	146	87.7	65.8	71.4	73.3	13
14	54.3	61.9	62.7	65.5	65.7	292	265	145	86.5	58.3	80.2	73.7	14
15	57.3	62.7	65.0	59.8	70.5	261	266	150	86.5	61.7	78.6	56.5	15
16	59.8	59.2	65.6	65.0	80.1	241	258	147	86.2	66.5	80.8	50.6	16
17	63.4	54.5	61.5	72.8	85.3	243	248	136	85.4	74.3	77.5	61.6	17
18	65.2	52.3	56.6	70.9	84.7	270	244	125	87.6	78.5	70.8	62.3	18
19	62.4	54.0	59.4	71.0	73.2	292	243	119	82.5	79.8	78.6	67.8	19
20	56.6	51.1	63.8	71.5	68.0	311	224	124	81.9	73.9	72.9	67.6	20
21	53.7	51.1	65.5	65.2	68.2	322	193	126	82.4	62.8	75.5	59.9	21
22	56.6	59.6	62.5	61.1	73.3	319	177	129	76.5	65.7	75.1	51.2	22
23	57.1	59.1	62.5	66.5	81.8	318	159	133	77.2	56.4	71.8	48.3	23
24	57.1	59.9	56.5	70.5	101	315	171	130	78.5	77.0	58.4	48.1	24
25	59.9	56.0	51.1	74.3	163	347	178	124	76.5	62.9	53.4	46.8	25
26	56.7	58.2	56.4	73.6	217	380	217	115	74.8	64.3	60.8	48.1	26
27	56.7	59.2	56.5	73.9	244	364	217	107	73.6	69.7	54.3	48.9	27
28	55.1	62.5	59.4	67.9	273	356	217	109	78.0	64.9	56.8	50.4	28
29	58.5		65.4	65.4	288	328	217	111	77.7	69.2	71.8	45.9	29
30	59.9		65.1	71.3	319	291	217	105	72.1	68.1	74.1	45.6	30
31	56.9		61.2		353		185	102		70.9		48.6	31
TOTAL	1 829.5	1 606.2	1 900.6	2 074.0	3 601.0	10 004	7 579	4 315	2 523.0	2 083.0	2 063.1	1 851.0	TOTAL
MEAN	59.0	57.4	61.3	69.1	116	333	244	139	84.1	67.2	68.8	59.7	MEAN
MAX	65.7	63.8	65.6	75.4	353	515	316	215	92.1	79.8	84.8	83.6	MAX
MIN	53.7	51.0	51.1	57.4	60.9	241	159	102	72.1	56.4	53.4	45.6	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 114
MAXIMUM DAILY, 515 ON JUN 03
MINIMUM DAILY, 45.6 ON DEC 30

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 13 30 N
LONG 114 42 30 W

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	158 000	JUL	655 000
FEB	139 000	AUG	373 000
MAR	164 000	SEP	218 000
APR	179 000	OCT	180 000
MAY	311 000	NOV	178 000
JUN	864 000	DEC	160 000

TOTAL DISCHARGE, 3 580 000 dam³

DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

GLENMORE RESERVOIR AT CALGARY - STATION NO. 05BJ008

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 075.188A1	1 074.718	1 073.938	1 074.248	1 073.718	1 073.038	1 073.678	1 073.768	1 075.278	1 076.418	1 076.108	1 075.538	1
2	1 075.198	1 074.648	1 073.958	1 074.238	1 073.698	1 073.058	1 073.728	1 073.808	1 075.298	1 076.448	1 076.108	1 075.538	2
3	1 075.178	1 074.598	1 073.988	1 074.188	1 073.688	1 073.278	1 073.778	1 074.148	1 075.278	1 076.478	1 076.098	1 075.488	3
4	1 075.148	1 074.558	1 074.028	1 074.068	1 073.698	1 073.528	1 073.808	1 074.378	1 075.238	1 076.508	1 076.088	1 075.438	4
5	1 075.128	1 074.518	1 074.048	1 073.938	1 073.678	1 073.668	1 073.778	1 074.568	1 075.228	1 076.548	1 076.078	1 075.418	5
6	1 075.118	1 074.478	1 074.068	1 073.828	1 073.688	1 073.648	1 073.748	1 074.678	1 075.248	1 076.598	1 076.058	1 075.368	6
7	1 075.128	1 074.458	1 074.098	1 073.748	1 073.718	1 073.678	1 073.748	1 074.698	1 075.278	1 076.638	1 076.028	1 075.318	7
8	1 075.128	1 074.448	1 074.128	1 073.718	1 073.708	1 073.758	1 073.718	1 074.678	1 075.288	1 076.678	1 075.968	1 075.298	8
9	1 075.128	1 074.428	1 074.158	1 073.708	1 073.698	1 073.778	1 073.688	1 074.668	1 075.308	1 076.668	1 075.878	1 075.288	9
10	1 075.128	1 074.398	1 074.178	1 073.688	1 073.678	1 073.748	1 073.748	1 074.668	1 075.358	1 076.688	1 075.788	1 075.268	10
11	1 075.118	1 074.388	1 074.208	1 073.688	1 073.668	1 073.768	1 073.788	1 074.658	1 075.438	1 076.688	1 075.698	1 075.238	11
12	1 075.088	1 074.388	1 074.238	1 073.698	1 073.668	1 073.718	1 073.788	1 074.648	1 075.508	1 076.658	1 075.638	1 075.228	12
13	1 075.088	1 074.378	1 074.258	1 073.738	1 073.668	1 073.658	1 073.768	1 074.688	1 075.578	1 076.578	1 075.608	1 075.208	13
14	1 075.098	1 074.358	1 074.268	1 073.778	1 073.678	1 073.698	1 073.768	1 074.758	1 075.658	1 076.458	1 075.598	1 075.188	14
15	1 075.098	1 074.338	1 074.288	1 073.788	1 073.688	1 073.758	1 073.748	1 074.818	1 075.668	1 076.318	1 075.578	1 075.188	15
16	1 075.098	1 074.308	1 074.308	1 073.768	1 073.688	1 073.788	1 073.748	1 074.898	1 075.678	1 076.218	1 075.548	1 075.208	16
17	1 075.078	1 074.268	1 074.338	1 073.718	1 073.668	1 073.768	1 073.788	1 075.028	1 075.738	1 076.178	1 075.528	1 075.218	17
18	1 075.038	1 074.228	1 074.348	1 073.698	1 073.698	1 073.698	1 073.788	1 075.178	1 075.808	1 076.168	1 075.508	1 075.188	18
19	1 075.008	1 074.168	1 074.378	1 073.698	1 073.758	1 073.698	1 073.778	1 075.258	1 075.858	1 076.168	1 075.508	1 075.148	19
20	1 074.978	1 074.168	1 074.408	1 073.688	1 073.788	1 073.768	1 073.768	1 075.248	1 075.938	1 076.168	1 075.528	1 075.108	20
21	1 074.978	1 074.158	1 074.428	1 073.668	1 073.778	1 073.778	1 073.758	1 075.228	1 076.028	1 076.168	1 075.528	1 075.058	21
22	1 074.978	1 074.158	1 074.418	1 073.668	1 073.778	1 073.718	1 073.738	1 075.208	1 076.068	1 076.178	1 075.518	1 075.008	22
23	1 074.978	1 074.128	1 074.418	1 073.698	1 073.768	1 073.718	1 073.718	1 075.208	1 076.108	1 076.168	1 075.528	1 074.968	23
24	1 074.978	1 073.998	1 074.398	1 073.698	1 073.778	1 073.778	1 073.718	1 075.248	1 076.148	1 076.168	1 075.528	1 074.928	24
25	1 074.968	1 073.908	1 074.378	1 073.678	1 073.558	1 073.718	1 073.748	1 075.278	1 076.188	1 076.168	1 075.518	1 074.888	25
26	1 074.958	1 073.878	1 074.368	1 073.698	1 073.328	1 073.668	1 073.778	1 075.288	1 076.228	1 076.168	1 075.508	1 074.858	26
27	1 074.948	1 073.898	1 074.348	1 073.708	1 073.418	1 073.688	1 073.768	1 075.268	1 076.268	1 076.158	1 075.508	1 074.828	27
28	1 074.928	1 073.918	1 074.328	1 073.678	1 073.638	1 073.708	1 073.748	1 075.228	1 076.308	1 076.158	1 075.508	1 074.808	28
29	1 074.898		1 074.308	1 073.668	1 073.568	1 073.688	1 073.738	1 075.208	1 076.348	1 076.148	1 075.508	1 074.808	29
30	1 074.848		1 074.308	1 073.698	1 073.388	1 073.658	1 073.758	1 075.228	1 076.378	1 076.128	1 075.518	1 074.808	30
31	1 074.788		1 074.288		1 073.278		1 073.788	1 075.258		1 076.118		1 074.808	31
MEAN	1 075.045	1 074.297	1 074.246	1 073.783	1 073.652	1 073.654	1 073.755	1 074.870	1 075.725	1 076.355	1 075.704	1 075.150	MEAN
MAX	1 075.198	1 074.718	1 074.428	1 074.248	1 073.788	1 073.788	1 073.808	1 075.288	1 076.378	1 076.688	1 076.108	1 075.538	MAX
MIN	1 074.788	1 073.878	1 073.938	1 073.668	1 073.278	1 073.038	1 073.678	1 073.768	1 075.228	1 076.118	1 075.508	1 074.808	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 1 074.689
MAXIMUM DAILY, 1 076.688 ON OCT 09
MINIMUM DAILY, 1 073.038 ON JUN 01

TYPE OF GAUGE - MANUAL
LOCATION - LAT 51 00 00 N
LONG 114 06 00 W

DATA CONTRIBUTED BY -
CITY OF CALGARY WATER WORKS DEPARTMENT

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA, 1 220 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM
APPLY -10.839 m ADJUSTMENT TO CONVERT TO CITY OF CALGARY DATUM

GOAT CREEK AT BANFF PARK BOUNDARY - STATION NO. 05BC008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.566	0.549E	0.462B	0.518	0.595	2.14	1.76	1.63	0.756	0.716	1.33	0.564	1
2	0.549	0.547B	0.476B	0.538	0.532	2.04	1.70	1.63	0.748	0.714	0.898	0.592	2
3	0.549	0.541	0.476	0.530	0.484	1.75	1.66	1.57	0.759	0.728	0.569	0.575	3
4	0.549	0.549	0.481	0.518	0.538	1.67	1.63	1.56	0.776	0.770	0.578	0.569	4
5	0.566	0.538	0.484	0.745	0.597	1.55	1.64	1.56	0.753	0.799	0.569	0.564	5
6	0.566	0.614	0.481	0.736	0.549	1.41	1.79	1.56	0.745	0.736	0.566	0.583	6
7	0.566	0.617	0.493	0.518	0.564	1.29	1.85	1.44	0.733	0.708	0.569	0.609	7
8	0.566	0.552	0.481	0.527	0.583	1.16	1.74	1.40	0.733	0.728	0.651	0.575	8
9	0.617	0.532	0.493	0.606	0.547	1.07	1.69	1.05	0.714	0.762	0.558	0.578	9
10	0.549	0.527	0.510	0.844	0.575	1.10	1.67	0.762	0.725	0.705	0.578	0.558	10
11	0.535B	0.530	0.538	0.487	0.564	1.12	1.68	0.756	0.733	0.697	0.680	0.538	11
12	0.547	0.498B	0.510	0.490	0.552	1.10	1.68	0.804	0.762	0.699	0.745	0.535	12
13	0.544	0.450B	0.561B	0.487	0.547	1.05	1.65	0.776	0.767	0.699	0.776	0.527	13
14	0.555	0.368B	0.504B	0.518	0.631	0.991	1.65	0.756	0.745	0.668	0.691	0.532	14
15	0.555	0.558B	0.504B	0.555	0.643	0.940	1.65	0.716	0.759	0.648	0.620	0.549	15
16	0.515	0.549B	0.498	0.569	0.617	0.943	1.62	0.779	0.725	0.711	0.586	0.578	16
17	0.510B	0.569B	0.504	0.606	0.614	1.54	1.60	0.782	0.699	0.719	0.566	0.564	17
18	0.595	0.680B	0.510	0.623	0.623	1.74	1.62	0.813	0.651	0.878	0.575	0.603B	18
19	0.484B	0.518B	0.535	0.580	0.643	1.72	1.62	0.784	0.702	0.651	0.555	0.651B	19
20	0.513	0.490	0.487	0.603	0.617	1.74	1.59	0.878	0.728	0.674	0.569	0.818B	20
21	0.524	0.473	0.487	0.535	0.634	1.73	1.56	0.917	0.725	0.651	0.595	0.524B	21
22	0.513	0.413	0.473	0.527	0.657	1.79	1.55	0.895	0.711	0.878	0.595	0.547B	22
23	0.532	0.445	1.01 B	0.515	0.580	1.85	1.55	0.824	0.705	0.631	0.597	0.550B	23
24	0.524	0.473	1.22 B	0.566	0.682	1.89	1.57	0.813	0.708	0.617	0.626	0.580B	24
25	0.544	0.470	1.27 B	0.561	1.78	1.87	1.97	0.813	0.722	0.637	0.620	0.569B	25
26	0.532	0.459B	1.28 B	0.583	1.86	1.88	1.93	0.810	0.714	0.663	0.589	0.566	26
27	0.552	0.532	1.25 B	0.589	1.42	1.82	1.78	0.753	0.725	0.665	0.566	0.558B	27
28	0.441	0.456B	0.991	0.561	1.26	1.81	1.74	0.770	0.719	0.680	0.569	0.566B	28
29	0.547B		0.513	0.532	1.65	1.76	1.68	0.799	0.716	0.668	0.547	0.564B	29
30	0.535B		0.513	0.569	1.53	1.76	1.66	0.804	0.711	1.09	0.552	0.566B	30
31	0.535E		0.510		1.43		1.71	0.756		1.37		0.550B	31
TOTAL	16.875	14.497	19.505	17.136	25.098	46.224	52.19	30.960	21.869	22.960	19.085	17.818	TOTAL
MEAN	0.544	0.518	0.629	0.571	0.810	1.54	1.68	0.999	0.729	0.741	0.636	0.575	MEAN
MAX	0.617	0.680	1.28	0.844	1.86	2.14	1.97	1.63	0.776	1.37	1.33	0.818	MAX
MIN	0.484	0.368	0.462	0.487	0.484	0.940	1.55	0.716	0.651	0.617	0.547	0.524	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.833
MAXIMUM DAILY, 2.14 ON JUN 01
MINIMUM DAILY, 0.368B ON FEB 14

DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 03 30 N
LONG 115 25 50 W
DRAINAGE AREA, 40.9 km²

B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1951

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 460	JUL	4 510
FEB	1 250	AUG	2 670
MAR	1 690	SEP	1 890
APR	1 480	OCT	1 980
MAY	2 170	NOV	1 650
JUN	3 990	DEC	1 540

TOTAL DISCHARGE, 26 300 dam³

GOLD CREEK NEAR FRANK - STATION NO. 05AA030

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.339	0.778	4.90	1.15	1.02	0.678	0.501	0.451B	---	1
2	---	---	---	0.389	0.814	4.42	1.14	0.986	0.677	0.507	0.390B	---	2
3	---	---	---	0.430	0.835	4.02	1.11	0.945	0.675	0.506	0.365B	---	3
4	---	---	---	0.416	0.924	3.94	1.09	0.905	0.666	0.553	0.340B	---	4
5	---	---	---	0.404B	1.14	3.59	1.07	0.879	0.657	0.576	0.317B	---	5
6	---	---	---	0.405	1.76	3.31	1.05	0.853	0.637	0.552	0.297B	---	6
7	---	---	---	0.422	1.81	3.12	1.08	0.822	0.617	0.536	0.270B	---	7
8	---	---	---	0.437	1.60	2.91	1.04	0.806	0.612	0.530	0.305B	---	8
9	---	---	---	0.418B	1.44	2.74	1.01	0.792	0.614	0.527	0.352B	---	9
10	---	---	---	0.414B	1.37	2.68	0.987	0.780	0.610	0.546	0.390B	---	10
11	---	---	---	0.414B	1.30	2.57	0.963	0.765	0.599	0.534	0.410B	---	11
12	---	---	---	0.437	1.29	2.40	0.951	0.745	0.592	0.528	0.402B	---	12
13	---	---	---	0.433	1.25	2.26	0.927	0.728	0.629	0.528	0.395B	---	13
14	---	---	---	0.448	1.24	2.13	0.912	0.706	0.597	0.525	0.389B	---	14
15	---	---	---	0.468	1.21	2.01	0.896	0.688	0.596	0.521	0.388B	---	15
16	---	---	---	0.483	1.18	1.93	0.881	0.691	0.585	0.527	0.374B	---	16
17	---	---	---	0.491	1.16	1.85	0.863	0.680	0.577	0.514	0.368B	---	17
18	---	---	---	0.543	1.21	1.79	0.857	0.691	0.565	0.513	0.362B	---	18
19	---	---	---	0.636	1.25	1.74	0.856	0.716	0.562	0.511	0.351B	---	19
20	---	---	---	0.739	1.26	1.72	0.849	0.725	0.553	0.506	0.343B	---	20
21	---	---	---	0.827	1.28	1.65	0.821	0.697	0.543	0.502	0.343B	---	21
22	---	---	---	0.888	1.30	1.58	0.807	0.689	0.539	0.496	0.336B	---	22
23	---	---	---	0.896	1.42	1.52	0.838	0.690	0.525	0.494	0.335B	---	23
24	---	---	---	0.893	2.00	1.47	0.868	0.711	0.538	0.489	0.337B	---	24
25	---	---	---	0.883	4.48	1.41	1.39	0.731	0.510	0.493	0.337B	---	25
26	---	---	---	0.883B	4.45	1.35	1.56	0.738	0.500	0.507	0.328B	---	26
27	---	---	---	0.854B	4.47	1.31	1.28	0.719	0.509	0.503	0.315B	---	27
28	---	---	0.289A	0.810B	4.72	1.27	1.17	0.708	0.508	0.500	0.301B	---	28
29	---	---	0.283	0.780B	7.41	1.22	1.11	0.698	0.499	0.483	0.294B	---	29
30	---		0.301	0.764B	6.94	1.18	1.07	0.692	0.500	0.479	0.283B	---	30
31	---		0.321		5.81		1.05	0.684		0.480		---	31
TOTAL	---	---	---	17.644	69.101	69.99	31.646	23.680	17.469	15.967	10.468	---	TOTAL
MEAN	---	---	---	0.588	2.23	2.33	1.02	0.764	0.582	0.515	0.349	---	MEAN
MAX	---	---	---	0.896	7.41	4.90	1.56	1.02	0.678	0.576	0.451	---	MAX
MIN	---	---	---	0.339	0.778	1.18	0.807	0.680	0.499	0.479	0.270	---	MIN

SUMMARY FOR THE MONTHS APR TO NOV

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.05
MAXIMUM DAILY, 7.41 ON MAY 29
MINIMUM DAILY, 0.270B ON NOV 07
MAXIMUM INSTANTANEOUS,
7.84 AT 11:50 MST ON MAY 29

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 36 08 N
LONG 114 24 00 W
DRAINAGE AREA, 62.9 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2 730
FEB	---	AUG	2 050
MAR	---	SEP	1 510
APR	1 520	OCT	1 380
MAY	5 970	NOV	904
JUN	6 050	DEC	---

TOTAL DISCHARGE, 22 100 dam³

GRANDE PRAIRIE CREEK NEAR SEXSMITH - STATION NO. 07GE003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.003B	2.83B	1.88	1.08	0.100E	0.001	0	0	0B	---	1
2	---	---	0.004B	2.28B	1.70	0.927	0.135E	0	0	0	0B	---	2
3	---	---	0.004B	2.00B	1.60	0.796	0.130E	0	0	0	---	---	3
4	---	---	0.003B	1.94B	1.63	0.747	0.100E	0	0	0	---	---	4
5	---	---	0.004B	1.84B	1.49	0.857	0.080E	0	0	0	---	---	5
6	---	---	0.004B	1.95B	1.15	0.876	0.070E	0	0	0	---	---	6
7	---	---	0.004B	1.65B	1.04	0.694	0.060E	0	0	0	---	---	7
8	---	---	0.003B	1.07B	1.13	0.548	0.045E	0	0	0	---	---	8
9	---	---	0.002B	1.10	1.05	0.429	0.035E	0	0	0	---	---	9
10	---	---	0.003B	1.21	0.995	0.358	0.030E	0	0	0	---	---	10
11	---	---	0 B	1.22	0.846	1.17	0.020E	0	0	0	---	---	11
12	---	---	0.002B	1.20	0.744	58.1 A	0.012E	0	0	0	---	---	12
13	---	---	0.003B	1.14	0.653	41.0 A	0.004A	0	0	0	---	---	13
14	---	---	0.004B	1.23	0.561	11.9 A	0 A	0	0	0	---	---	14
15	---	---	0.005B	1.62	0.528	4.95	0 E	0	0	0 B	---	---	15
16	---	---	0.009B	1.56	0.494	3.75	0 E	0	0	0 B	---	---	16
17	---	---	0.020B	1.72	0.478	2.73	0 E	0	0	0 B	---	---	17
18	---	---	0.050B	2.40	0.443	1.86	0 E	0	0	0 B	---	---	18
19	---	---	0.154B	3.27	0.432	1.23	0 E	0	0	0 B	---	---	19
20	---	0 B	0.132B	3.58	0.466	0.764	0 A	0	0	0 B	---	---	20
21	---	0 B	0.087B	3.58	0.403	0.458	0	0	0	0 B	---	---	21
22	---	0 B	0.049B	3.33	0.696	0.230A	0	0	0	0 B	---	---	22
23	---	0 B	0.027B	3.34	0.935	0.210E	0.002	0	0	0 B	---	---	23
24	---	0.001B	0.023B	3.12	0.760	0.180E	0	0	0	0 B	---	---	24
25	---	0.001B	0.027B	4.76	0.834	0.140E	0.001	0	0	0 B	---	---	25
26	---	0.002B	0.044B	4.88	1.29	0.120E	0.001	0	0	0.001B	---	---	26
27	---	0.003B	0.378B	3.85	1.08	0.100E	0	0	0	0.001B	---	---	27
28	---	0.004B	2.29 B	3.07	0.865	0.090E	0.001	0	0	0.001B	---	---	28
29	---		5.17 B	2.52	0.711	0.078E	0	0	0	0 B	---	---	29
30	---		5.76 B	2.07	0.760	0.066E	0	0	0	0 B	---	---	30
31	---		4.67 B		1.05		0	0		0 B		---	31
TOTAL	---	---	18.938	71.28	28.694	136.438	0.826	0.001	0	0.003	---	---	TOTAL
MEAN	---	---	0.611	2.38	0.926	4.55	0.027	0	0	0	---	---	MEAN
MAX	---	---	5.76	4.88	1.88	58.1	0.135	0.001	0	0.001	---	---	MAX
MIN	---	---	0	1.02	0.403	0.066	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.05
MAXIMUM DAILY, 58.1A ON JUN 12
MINIMUM DAILY, 0B ON MAR 11
MAXIMUM INSTANTANEOUS,
64.0 AT 11:00 MST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 22 28 N
LONG 118 54 50 W
DRAINAGE AREA, 152 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	71.4
FEB	---	AUG	0.086
MAR	1 640	SEP	0
APR	6 160	OCT	0.259
MAY	2 480	NOV	---
JUN	11 800	DEC	---

TOTAL DISCHARGE, 22 200 dam³

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARKS.

GREASEWOOD RESERVOIR NEAR ELKWATER - STATION NO. 11AB092

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	30.115	---	---	---	---	---	---	---	1
2	---	---	---	---	---	---	---	---	---	---	---	---	2
3	---	---	---	---	---	---	---	---	---	---	---	---	3
4	---	---	---	---	---	---	---	---	---	---	---	---	4
5	---	---	---	---	---	---	29.720	---	---	---	---	---	5
6	---	---	29.600E	30.136	30.100E	30.035	29.705E	29.215E	28.635E	28.060E	---	---	6
7	---	---	29.800	---	30.100	---	---	29.192	28.610	---	---	---	7
8	---	---	---	---	---	---	---	---	---	---	---	---	8
9	---	---	---	---	---	---	---	---	---	28.027	---	---	9
10	---	---	---	---	---	---	---	---	---	---	---	---	10
11	---	---	---	---	---	---	---	---	---	---	---	---	11
12	---	---	---	---	---	---	---	---	---	---	---	---	12
13	---	---	---	---	---	---	---	---	---	---	---	---	13
14	---	---	---	---	---	---	---	---	---	---	---	---	14
15	---	---	30.185	---	---	---	---	---	---	---	---	---	15
16	---	---	30.180E	30.130E	30.040E	29.995E	29.530E	29.008	28.410E	27.960E	---	---	16
17	---	---	---	30.130	30.050	---	29.525	---	---	---	---	---	17
18	---	---	---	---	---	29.954	---	---	28.380	27.930	---	---	18
19	---	---	---	---	---	---	---	---	---	---	---	---	19
20	---	---	---	---	---	---	---	---	---	---	---	---	20
21	---	---	---	---	---	---	---	---	---	---	---	---	21
22	---	28.100	---	---	---	---	---	---	---	---	---	---	22
23	---	---	---	---	---	---	---	---	---	---	---	---	23
24	---	28.100E	---	---	---	---	---	---	---	---	---	---	24
25	---	---	---	---	---	---	---	---	28.240	---	---	---	25
26	---	---	---	30.125E	---	29.845E	---	---	28.230E	---	---	---	26
27	---	---	30.157	---	30.140E	29.837	29.370E	28.840E	---	27.815E	---	---	27
28	---	28.750E	---	---	---	---	---	28.815	---	---	---	---	28
29	---		---	---	30.120	---	---	---	---	---	---	---	29
30	---		---	30.120E	---	29.790E	29.328	---	28.160E	27.766	---	---	30
31	---		30.145E		30.100E		29.310E	28.760E		27.755E		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 28 54 N
LONG 110 23 58 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA, 9.32 km²

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

GREGG RIVER NEAR THE MOUTH - STATION NO. 07AF015

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.495B	0.745B	3.28	11.2	6.18	4.06	3.99	2.72	1.68B	---	1
2	---	---	0.503B	0.752B	3.76	29.7	6.95	3.75	3.59	2.66	1.42B	---	2
3	---	---	0.511B	0.760B	4.73	45.6	13.5	3.58	3.33	2.55	1.30B	---	3
4	---	---	0.520B	0.760B	5.75	42.6	14.2	3.41	3.12	2.71	1.55B	---	4
5	---	---	0.528B	0.776B	7.43	19.3	11.1	3.25	2.96	2.69	1.40B	---	5
6	---	---	0.536B	0.769B	10.9	16.2	36.2	3.09	2.85	2.57	1.25B	---	6
7	---	---	0.544B	0.762B	8.01	13.6	54.2	2.96	2.70	2.47	1.44B	---	7
8	---	---	0.553B	0.755B	6.58	12.0	42.1	2.86	2.61	2.46	1.37B	---	8
9	---	---	0.561B	0.748B	6.37	10.6	32.4	2.77	2.61	2.76	---	---	9
10	---	---	0.569B	0.731B	5.84	9.65	24.8	2.67	2.50	3.09	---	---	10
11	---	---	0.577B	0.675B	5.57	13.2	19.3	2.58	2.42	2.88	---	---	11
12	---	---	0.585B	0.629B	5.56	30.6	15.6	2.56	2.48	2.70	---	---	12
13	---	---	0.594B	0.724B	5.62	52.6	13.0	2.58	2.59	2.56	---	---	13
14	---	---	0.602B	0.896B	5.98	45.3	10.9	2.65	2.44	2.43B	---	---	14
15	---	---	0.610B	1.20 B	5.88	38.0	9.70	2.64	2.37	2.25B	---	---	15
16	---	---	0.618B	1.23 B	5.91	35.0	9.39	2.65	3.47	2.21B	---	---	16
17	---	---	0.627B	1.30 B	6.18	32.0	8.35	3.00	11.1	2.13B	---	---	17
18	---	---	0.635B	1.66 B	7.32	27.9	7.80	3.20	6.99	2.20B	---	---	18
19	---	---	0.643B	2.21 B	7.19	23.4	7.88	2.96	5.66	2.09B	---	---	19
20	---	---	0.651B	2.57 B	7.55	19.6	7.05	2.74	4.83	1.91B	---	---	20
21	---	---	0.660B	2.92 B	8.25	16.0	6.41	2.55	4.31	2.02B	---	---	21
22	---	---	0.668B	3.17 B	8.36	13.8	5.79	2.55	3.94	1.94B	---	---	22
23	---	---	0.676B	3.25 B	8.65	12.4	5.37	3.10	3.61	1.80B	---	---	23
24	---	---	0.684B	3.89 B	9.80	11.2	5.78	3.63	3.35	1.89B	---	---	24
25	---	---	0.691B	4.30 B	13.9	10.0	5.73	3.42	3.24	1.91B	---	---	25
26	---	---	0.699B	3.98 B	18.9	8.65	5.22	5.37	3.12	1.98B	---	---	26
27	---	---	0.707B	3.42 B	18.3	7.70	4.99	4.72	3.04	1.91B	---	---	27
28	---	---	0.714B	3.01 B	17.9	7.36	4.76	4.12	2.98	1.93B	---	---	28
29	---	---	0.722B	2.87 B	18.1	7.15	4.51	3.72	2.91	1.83B	---	---	29
30	---		0.730B	2.92 B	22.2	6.44	4.39	4.10	2.84	1.78B	---	---	30
31	---		0.738B		36.7		4.14	4.72		1.64B		---	31
TOTAL	---	---	19.151	54.390	306.47	608.75	407.69	101.96	107.95	70.67	---	---	TOTAL
MEAN	---	---	0.618	1.81	9.89	20.3	13.2	3.29	3.60	2.28	---	---	MEAN
MAX	---	---	0.738	4.30	36.7	52.6	54.2	5.37	11.1	3.09	---	---	MAX
MIN	---	---	0.495	0.629	3.28	6.44	4.14	2.55	2.37	1.64	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 6.85
MAXIMUM DAILY, 54.2 ON JUL 07
MINIMUM DAILY, 0.495B ON MAR 01
MAXIMUM INSTANTANEOUS, 59.4 AT 00:07 MST ON JUL 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 15 07 N
LONG 117 21 23 W

DRAINAGE AREA, 364 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	35 200
FEB	---	AUG	8 810
MAR	1 650	SEP	9 330
APR	4 700	OCT	6 110
MAY	26 500	NOV	---
JUN	52 600	DEC	---

TOTAL DISCHARGE, 145 000 dam³

GREGOIRE LAKE NEAR FORT MCMURRAY - STATION NO. 07CE001

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	475.322E	475.286	475.477	475.557	475.591	475.400	475.319A	---	---	---	1
2	---	---	475.322A	475.287	475.482	475.554	475.578	475.398	475.319A	---	---	---	2
3	---	---	475.323	475.291	475.487	475.541	475.568	475.376A	475.319A	---	---	---	3
4	---	---	475.322	475.289	475.493	475.542	475.558	475.371	475.319A	---	---	---	4
5	---	---	475.321	475.287	475.501	475.542	475.549	475.369	475.319A	---	---	---	5
6	---	---	475.319	475.290	475.518	475.540	475.545	475.362A	475.319E	---	---	---	6
7	---	---	475.319	475.290	475.545	475.535	475.542	475.366	475.319A	---	---	---	7
8	---	---	475.320	475.290	475.575	475.534	475.538	475.350	475.319A	---	---	---	8
9	---	---	475.323	475.289	475.587	475.531	475.532	475.339	475.319A	---	---	---	9
10	---	---	475.319	475.286	475.602	475.538	475.527	475.333	475.319E	---	---	---	10
11	---	---	475.318	475.288	475.608	475.561	475.519	475.331	475.319E	---	---	---	11
12	---	---	475.317	475.290	475.616	475.609	475.510	475.319A	475.319A	---	---	---	12
13	---	---	475.314	475.288	475.623	475.657	475.515	475.319A	475.319A	---	---	---	13
14	---	---	475.314	475.286	475.628	475.675	475.511	475.319A	475.319E	---	---	---	14
15	---	---	475.310	475.288	475.631	475.689	475.489	475.319A	475.319E	---	---	---	15
16	---	---	475.308	475.287	475.630	475.696	475.475	475.319A	475.319E	---	---	---	16
17	---	---	475.306	475.283	475.629	475.701	475.473	475.319A	475.319A	---	---	---	17
18	---	---	475.305	475.285	475.620	475.701	475.464	475.323A	475.319E	---	---	---	18
19	---	---	475.300	475.285	475.608	475.699	475.460	475.325A	475.319E	---	---	---	19
20	---	---	475.303	475.290	475.610	475.692	475.452	475.319A	475.319E	---	---	---	20
21	---	---	475.309	475.295	475.606	475.681	475.447	475.319E	475.319E	---	---	---	21
22	---	---	475.308	475.306	475.600	475.674	475.441	475.330A	475.319E	---	---	---	22
23	---	---	475.303	475.314	475.593	475.665	475.437	475.347	475.319E	---	---	---	23
24	---	---	475.296	475.343	475.593	475.655	475.433	475.338	475.319A	---	---	---	24
25	---	---	475.295	475.389	475.588	475.642	475.424	475.329	475.319A	---	---	---	25
26	---	---	475.293	475.421	475.588	475.632	475.420	475.325	---	---	---	---	26
27	---	---	475.294	475.443	475.584	475.625	475.423	475.319A	---	475.319A	---	---	27
28	---	---	475.293	475.458	475.573	475.613	475.418	475.319E	---	---	---	---	28
29	---		475.290	475.460	475.566	475.602	475.405	475.319A	---	---	---	---	29
30	---		475.289	475.471	475.560	475.594	475.404	475.319A	---	---	---	---	30
31	---		475.288		475.558		475.398	475.319A		---		---	31
MEAN	---	---	475.308	475.322	475.577	475.616	475.485	475.338	---	---	---	---	MEAN
MAX	---	---	475.323	475.471	475.631	475.701	475.591	475.400	---	---	---	---	MAX
MIN	---	---	475.288	475.283	475.477	475.531	475.398	475.319	---	---	---	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MAXIMUM DAILY, 475.701 ON JUN 17

MAXIMUM INSTANTANEOUS,
475.704 AT 23:57 MST ON JUN 18

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 26 30 N
LONG 111 05 10 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1978

DRAINAGE AREA,
263 km²

GROAT CREEK NEAR WHITECOURT - STATION NO. 07AG008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.300B	0.400B	1.67	1.40	0.548	0.254	0.261	0.189	---	---	1
2	---	---	0.298B	0.375B	1.66	1.21	0.635	0.239	0.245	0.192	---	---	2
3	---	---	0.292B	0.355B	1.73	1.14	21.2 A	0.232	0.241	0.193	---	---	3
4	---	---	0.288B	0.350B	1.72	1.77	14.3 A	0.228	0.229	0.202	---	---	4
5	---	---	0.282B	0.340B	1.73	2.29	9.00 E	0.220	0.224	0.218	---	---	5
6	---	---	0.270B	0.340B	1.72	1.76	2.50 A	0.210	0.219	0.216	---	---	6
7	---	---	0.250B	0.360B	1.69	1.61	0.799	0.225	0.216	0.217	---	---	7
8	---	---	0.235B	0.385B	1.79	1.55	0.638	0.230	0.211	0.220	---	---	8
9	---	---	0.208B	0.400B	1.82	1.47	0.556	0.229	0.213	0.230	---	---	9
10	---	---	0.200B	0.454B	1.76	1.33	0.482	0.227	0.210	0.253	---	---	10
11	---	---	0.193B	0.537B	1.67	1.75	0.435	0.224	0.206	0.251	---	---	11
12	---	---	0.181B	0.546B	1.60	3.38	0.402	0.222	0.220	0.239	---	---	12
13	---	---	0.187B	0.840B	1.58	3.64	0.393	0.209	0.220	0.234	---	---	13
14	---	---	0.210B	1.24 B	1.59	1.80	0.372	0.214	0.213	0.231	---	---	14
15	---	---	0.219B	1.26 B	1.55	1.41	0.350	0.216	0.207	0.215B	---	---	15
16	---	---	0.220B	1.17 B	1.50	1.25	0.286	0.235	0.207	0.211B	---	---	16
17	---	---	0.214B	1.31 B	1.51	1.26	0.286	0.242	0.208	0.231B	---	---	17
18	---	---	0.211B	1.40 B	1.54	1.09	0.279	0.239	0.210	0.232B	---	---	18
19	---	---	0.247B	1.65 B	1.54	0.960	0.269	0.225	0.207	0.231B	---	---	19
20	---	---	0.254B	1.90 B	1.58	0.854	0.256	0.216	0.204	0.218B	---	---	20
21	---	---	0.265B	2.15 B	1.71	0.772	0.256A	0.210	0.202	0.230B	---	---	21
22	---	---	0.240B	2.22 B	1.81	0.714	0.260E	0.211	0.199	0.245B	---	---	22
23	---	---	0.227B	2.12 B	1.71	0.652	0.264E	0.216	0.194	0.221B	---	---	23
24	---	---	0.230B	2.10 A	1.71	0.608	0.269A	0.207	0.186	0.241B	---	---	24
25	---	---	0.240B	2.06	3.28	0.588	0.263	0.202	0.181	0.237B	---	---	25
26	---	---	0.242B	1.91	2.26	0.604	0.259	0.230	0.179	0.239B	---	---	26
27	---	---	0.253E	1.70	1.86	0.589	0.252	0.247	0.181	0.225B	---	---	27
28	---	---	0.258B	1.62	1.59	0.622	0.247	0.224	0.182	0.236B	---	---	28
29	---	---	0.261B	1.53	1.38	0.610	0.241	0.211	0.186	0.236B	---	---	29
30	---		0.330B	1.58	1.28	0.554	0.238	0.233	0.188	0.225B	---	---	30
31	---		0.440B		1.63		0.279	0.287		0.225B		---	31
TOTAL	---	---	7.745	34.602	53.17	39.245	56.814	7.014	6.249	6.983	---	---	TOTAL
MEAN	---	---	0.250	1.15	1.72	1.31	1.83	0.226	0.208	0.225	---	---	MEAN
MAX	---	---	0.440	2.22	3.28	3.64	21.2	0.287	0.261	0.253	---	---	MAX
MIN	---	---	0.181	0.340	1.28	0.554	0.238	0.202	0.179	0.189	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN, 0.865
MAXIMUM DAILY, 21.2A ON JUL 03
MINIMUM DAILY, 0.179 ON SEP 26
MAXIMUM INSTANTANEOUS,
43.0A ON JUL 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 01 57 N
LONG 115 50 30 W
DRAINAGE AREA, 134 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	4 910
FEB	---	AUG	606
MAR	669	SEP	540
APR	2 990	OCT	603
MAY	4 590	NOV	---
JUN	3 390	DEC	---

TOTAL DISCHARGE, 18 300 dam³

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARKS.

GROS VENTRE CREEK NEAR DUNMORE - STATION NO. 05AH037

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	0 B	0.053B	0.132	0.015	0.038	0	0	0	0	---	---
2	---	0 B	0.060B	0.108	0.023	0.028	0	0	0	0	---	---
3	---	0 B	0.080B	0.102	0.028	0.022	0	0	0	0	---	---
4	---	0 B	0.110B	0.093	0.031	0.017	0	0	0	0	---	---
5	---	0 B	0.476	0.078	0.028	0.013	0	0	0	0	---	---
6	---	0 B	0.442	0.063	0.026	0.009	0	0	0	0	---	---
7	---	0 B	0.487	0.051	0.018	0.009	0	0	0	0	---	---
8	---	0 B	0.661	0.041	0.015	0.006	0	0	0	0	---	---
9	---	0 B	0.274	0.041	0.017	0.004	0	0	0	0	---	---
10	---	0 B	0.153	0.040	0.022	0.003	0	0	0	0	---	---
11	---	0 B	0.113	0.041	0.025	0.002	0	0	0	0	---	---
12	---	0 B	0.010B	0.042	0.032	0.002	0	0	0	0	---	---
13	---	0 B	0.009B	0.038	0.033	0.004	0	0	0	0	---	---
14	---	0 B	0.013B	0.036	0.034	0.038	0	0	0	0	---	---
15	---	0 B	0.017B	0.031	0.031	0.180	0	0	0	0	---	---
16	---	0 B	0.018B	0.026	0.025	0.097	0	0	0	0	---	---
17	---	0 B	0.023	0.024	0.020	0.067	0	0	0	0	---	---
18	---	0 B	0.017	0.022	0.020	0.045	0	0	0	0	---	---
19	---	0 B	0.024	0.017	0.021	0.034	0	0	0	0	---	---
20	---	0 B	0.050	0.012	0.027	0.023	0	0	0	0	---	---
21	---	0 B	0.225	0.009	0.028	0.015	0	0	0	0	---	---
22	---	0 B	0.121	0.008	0.025	0.015	0	0	0	0	---	---
23	---	0.001B	0.115	0.006	0.030	0.011	0	0	0	0	---	---
24	---	0.010B	0.078	0.005	0.038	0.005	0	0	0	0	---	---
25	---	0.060B	0.069	0.006	0.097	0.003	0	0	0	0	---	---
26	---	0.300B	0.064	0.005	0.155	0.002	0	0	0	0	---	---
27	---	0.459B	0.082	0.006	0.145	0.001	0	0	0	0	---	---
28	---	0.200B	0.140	0.009	0.105	0	0	0	0	0	---	---
29	---		0.202	0.009	0.082	0	0	0	0	0	---	---
30	OB		0.254	0.010	0.065	0	0	0	0	OA	---	---
31	OB		0.181		0.051		0	0		OE		---
TOTAL	---	1.030	4.621	1.111	1.312	0.693	0	0	0	0	---	---
MEAN	---	0.037	0.149	0.037	0.042	0.023	0	0	0	0	---	---
MAX	---	0.459	0.661	0.132	0.155	0.180	0	0	0	0	---	---
MIN	---	0	0.009	0.005	0.015	0	0	0	0	0	---	---

SUMMARY FOR THE MONTHS FEB TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.032
MAXIMUM DAILY, 0.661 ON MAR 08
MINIMUM DAILY, 0B ON FEB 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 53 20 N
LONG 110 30 20 W
DRAINAGE AREA, 215 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	89.0	AUG	0
MAR	399	SEP	0
APR	96.0	OCT	0
MAY	113	NOV	---
JUN	59.9	DEC	---

TOTAL DISCHARGE, 757 dam³

GULL LAKE AT ASPEN BEACH - STATION NO. 05CC006

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	---	---	---	899.118	---	---
2	---	---	---	---	---	899.135	899.245	899.336	---	---	---	---
3	---	---	---	---	---	899.135	---	---	---	899.118	---	---
4	---	---	---	---	---	899.135	---	899.321	899.249	899.118	---	---
5	---	---	---	---	---	---	---	---	899.249	899.138	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	899.321	899.249	---	---	---
8	---	---	---	---	---	899.165	---	---	---	---	---	---
9	---	---	---	---	899.045	899.165	---	---	---	899.138	---	---
10	---	---	---	---	---	899.165	---	---	---	899.138	---	---
11	---	---	---	898.984	899.045	899.165	---	899.311	899.229	899.138	---	---
12	---	---	---	---	899.045	899.245	---	---	899.219	899.118	---	---
13	---	---	---	---	---	899.265	---	---	---	---	---	---
14	---	---	---	---	---	899.255	---	---	899.209	---	---	---
15	---	---	---	---	---	---	---	---	899.209	899.118	---	---
16	---	---	---	---	---	899.255	899.382	---	---	899.118	---	---
17	---	---	---	---	899.045	899.255	---	---	899.199	899.118	---	---
18	---	---	---	---	899.045	---	---	899.290	899.188	899.118	---	---
19	---	---	898.937	---	---	---	---	899.290	---	899.118	---	---
20	---	---	---	---	899.045	---	---	899.290	899.188	---	---	---
21	---	---	---	---	---	---	899.362	899.290	899.178	---	---	---
22	---	898.905	---	---	899.065	899.235	899.352	---	---	899.108	---	---
23	---	---	---	---	---	899.245	899.352	---	---	899.108	---	---
24	---	---	---	---	---	---	---	899.280	899.168	899.108	---	---
25	---	---	---	---	---	---	---	---	899.168	899.108	---	---
26	---	---	---	---	899.095	899.245	---	---	899.168	---	---	---
27	---	---	---	---	899.105	---	899.361	---	899.168	---	---	---
28	---	---	---	---	899.105	---	899.361	---	899.158	---	---	---
29	---		---	---	899.105	---	---	---	---	899.098	---	---
30	---		---	---	---	---	---	899.260	---	899.088	---	---
31	---		---		---		---	899.269		899.093		---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 52 27 20 N
LONG 113 58 03 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA, 289 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

HAMMER HILL SPILLWAY NEAR GLEICHEN - STATION NO. 05BM005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.067	0.476	0.092	0.006	0.002	0.008	0	---	1
2	---	---	---	---	0.059	0.476	0.061	0.001	0.001	0.009	0	---	2
3	0.044B	---	---	---	0.057	0.458	0.124	0.005	0.001	0.005	0	---	3
4	---	---	---	---	0.047	0.573	0.058	0.008	0.002	0.003	0	---	4
5	---	---	---	---	0.029E	0.644	0.015	0.006	0.004	0.001	0	---	5
6	---	---	---	---	0.061A	0.592	0.021	0.002	0.003	0	0	---	6
7	---	---	---	---	0.054	0.541	0.073	0.001	0.004	0	0	---	7
8	---	---	---	---	0.053A	0.541	0.076	0.002	0.005	0	0	---	8
9	---	---	---	---	0.040E	0.494	0.081	0.006	0.004A	0	0	---	9
10	---	---	---	---	0.030E	0.447	0.078	0.004	0.003E	0	0	---	10
11	---	---	---	---	0.025E	0.579	0.065	0.001	0.003E	0	0	---	11
12	---	---	---	---	0.038A	0.545	0.046	0	0.003E	0	0	---	12
13	---	---	---	---	0.065	0.537	0.039	0.002	0.003E	0	0	---	13
14	---	---	---	---	0.109	0.425	0.044	0.001	0.003E	0	0	---	14
15	---	---	---	---	0.080	0.374	0.046	0.001	0.003E	0	0	---	15
16	---	---	---	---	0.022	0.367	0.022	0.001	0.003E	0	0	---	16
17	---	---	---	---	0.027	0.408	0.014	0.006	0.005E	0	0	---	17
18	---	---	---	---	0.050	0.346	0.012	0.005	0.010E	0	0	---	18
19	---	---	---	---	0.066	0.319	0.016	0.007	0.018A	0.005	0	---	19
20	---	---	---	0.126A	0.059	0.308	0.014	0.010	0.016	0.002	0	---	20
21	---	---	---	0.120	0.180	0.296	0.035	0.007	0.080	0	0	---	21
22	---	---	---	0.107	0.155	0.253	0.040	0.001	0.023	0	0	---	22
23	---	---	---	0.107	0.119	0.235	0.048	0.003	0.015	0	0	---	23
24	---	---	---	0.084	0.145	0.217	0.025	0.003	0.012	0	0	---	24
25	---	---	---	0.083	0.251	0.198	0.021	0.003	0.029	0	0	---	25
26	---	---	---	0.064	0.300	0.185	0.012	0.005	0.021	0	0	---	26
27	---	---	---	0.045	0.320	0.164	0.011	0.002	0.010	0	0	---	27
28	---	---	---	0.041A	0.337	0.120	0.011	0.001	0.003	0	0A	---	28
29	---	---	---	0.187	0.330	0.107	0.003	0.001	0.001	0	0E	---	29
30	---		---	0.083	0.467	0.085	0.001	0.001	0.007	0	0E	---	30
31	---		---		0.525		0.002	0.002		0		---	31
TOTAL	---	---	---	---	4.177	11.310	1.206	0.104	0.297	0.033	0	---	TOTAL
MEAN	---	---	---	---	0.135	0.377	0.039	0.003	0.010	0.001	0	---	MEAN
MAX	---	---	---	---	0.525	0.644	0.124	0.010	0.080	0.009	0	---	MAX
MIN	---	---	---	---	0.022	0.085	0.001	0	0.001	0	0	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.080
MAXIMUM DAILY, 0.644 ON JUN 05
MINIMUM DAILY, 0 ON AUG 12

SUMMARY FOR THE MONTHS MAY TO NOV

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 51 20 N
LONG 113 08 00 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	104
FEB	---	AUG	8.99
MAR	---	SEP	25.7
APR	---	OCT	2.85
MAY	361	NOV	0
JUN	977	DEC	---

TOTAL DISCHARGE, 1 480 dam³

HANGINGSTONE RIVER AT FORT MCMURRAY - STATION NO. 07CD004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.325B	1.99B	16.0 A	5.27	5.53 A	0.802	0.502	0.468	---	---	1
2	---	---	0.321B	1.73B	15.7 A	5.96	5.17 A	0.729	0.580	0.547	---	---	2
3	---	---	0.324B	1.04B	15.7 A	6.60	4.84 A	0.686	0.575	0.590	---	---	3
4	---	---	0.300B	1.05B	16.4 A	6.29	4.38	0.685	0.531	0.667	---	---	4
5	---	---	0.299B	1.20B	17.0 A	6.01	3.93	0.636	0.526	0.823	---	---	5
6	---	---	0.223B	1.35B	17.7 A	6.67	3.49	0.586	0.486	0.682	---	---	6
7	---	---	0.250B	1.58B	22.9 A	7.29	3.34	0.550	0.476	0.661	---	---	7
8	---	---	0.154B	1.88B	26.0 A	6.87	3.37	0.494	0.468	0.645	---	---	8
9	---	---	0.078B	1.60B	26.0 A	6.53	3.40	0.459	0.497	0.630	---	---	9
10	---	---	0.067B	1.40B	26.5 A	7.36	3.41	0.421	0.492	0.652	---	---	10
11	---	---	0.058B	1.60B	24.9 A	15.5	3.69	0.395	0.470	0.694	---	---	11
12	---	---	0.056B	1.35B	21.4 A	59.4	3.23	0.395	0.502	0.861	---	---	12
13	---	---	0.082B	1.60B	18.6 E	81.0	2.74	0.477	0.512	0.887	---	---	13
14	---	---	0.242B	1.65B	17.4 E	66.5	2.35	0.414	0.501	0.842	---	---	14
15	---	---	0.532B	1.45B	16.8 E	47.9	2.08	0.418	0.533	0.833	---	---	15
16	---	---	0.214B	1.80B	16.1 A	35.7	1.94	0.377	0.551	0.770B	---	---	16
17	---	---	0.036B	2.20B	14.9	26.2 A	1.79	0.369	0.555	0.690B	---	---	17
18	---	---	0.294B	2.80B	13.7	20.5 A	1.64	0.434	0.499	0.620B	---	---	18
19	---	---	0.173B	4.00B	12.6	17.1	1.60	0.417	0.502	0.550B	---	---	19
20	---	---	0.025B	5.40B	12.1	14.5	1.58	0.424	0.662	0.505B	---	---	20
21	---	---	0.021B	7.80B	11.7	12.1 A	1.54	0.410	0.573	0.480B	---	---	21
22	---	---	0.023B	10.4 B	11.1	10.4 E	1.45	0.514	0.550	0.470B	---	---	22
23	---	---	0.025B	13.4 B	10.1	9.07A	1.30	0.504	0.528	0.490B	---	---	23
24	---	---	0.036B	15.9	9.38	7.65	1.19	0.799	0.526	0.524B	---	---	24
25	---	---	0.033B	35.4	8.87	6.41	1.10	0.750	0.477	0.520B	---	---	25
26	---	---	0.032B	29.5 A	8.08	5.43	1.02	0.727	0.445	0.514B	---	---	26
27	---	---	0.052B	20.4 A	7.50	4.74	1.02	0.651	0.450	0.493B	---	---	27
28	---	---	0.121B	18.4 A	6.83	4.26	1.05	0.588	0.452	0.490B	---	---	28
29	---	---	0.555B	17.4 A	6.11	3.96	1.01	0.538	0.442	0.500B	---	---	29
30	---		1.83 B	16.5 A	5.71	4.70	0.965	0.570	0.436	0.490B	---	---	30
31	---		1.65 B		5.26		0.840	0.535		0.475B		---	31
TOTAL	---	---	8.431	223.67	459.06	517.87	75.985	16.754	15.379	19.063	---	---	TOTAL
MEAN	---	---	0.272	7.46	14.8	17.3	2.45	0.541	0.513	0.615	---	---	MEAN
MAX	---	---	1.83	35.4	26.5	81.0	5.53	0.802	0.662	0.887	---	---	MAX
MIN	---	---	0.021	1.04	5.26	3.96	0.840	0.369	0.436	0.468	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 5.45
MAXIMUM DAILY, 81.0 ON JUN 13
MINIMUM DAILY, 0.021B ON MAR 21
MAXIMUM INSTANTANEOUS,
85.0 AT 14:36 MST ON JUN 13

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 42 18 N
LONG 111 21 20 W
DRAINAGE AREA, 959 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	6 570
FEB	---	AUG	1 450
MAR	728	SEP	1 330
APR	19 300	OCT	1 650
MAY	39 700	NOV	---
JUN	44 700	DEC	---

TOTAL DISCHARGE, 115 000 dam³

HARTLEY CREEK NEAR FORT MACKAY - STATION NO. 07DA009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.030B	0.085B	12.7	3.00	1.61	0.316	0.002	0.014	---	---	1
2	---	---	0.030B	0.104B	13.1	3.30	2.09	0.306	0.002	0.017	---	---	2
3	---	---	0.030B	0.128B	13.3	3.23	2.00	0.221	0	0.025	---	---	3
4	---	---	0.030B	0.152B	13.4	2.97	1.78	0.197	0	0.027	---	---	4
5	---	---	0.033B	0.187B	13.3	2.84	1.59	0.170	0	0.027	---	---	5
6	---	---	0.034B	0.215B	13.0	2.79	1.56	0.150	0	0.027	---	---	6
7	---	---	0.035B	0.236B	14.1	2.75	1.55	0.142	0.001	0.026	---	---	7
8	---	---	0.037B	0.250B	14.7	2.65	1.39	0.135	0.001	0.026	---	---	8
9	---	---	0.038B	0.270B	14.8	2.46	1.27	0.116	0.002	0.027	---	---	9
10	---	---	0.038B	0.290B	14.7	2.32	1.20	0.105	0.002	0.027	---	---	10
11	---	---	0.037B	0.315B	14.4	2.65	1.05	0.104	0.002	0.026	---	---	11
12	---	---	0.034B	0.346B	13.8	4.10	0.917	0.093	0.003	0.024	---	---	12
13	---	---	0.035B	0.392B	13.1	5.07	0.822	0.077	0.002	0.024	---	---	13
14	---	---	0.038B	0.439B	12.5	5.16	0.730	0.058	0.004	0.024	---	---	14
15	---	---	0.039B	0.490B	11.2	4.88	0.674	0.053	0.006	0.023B	---	---	15
16	---	---	0.038B	0.533B	10.1	4.50	0.587	0.038	0.007	0.023B	---	---	16
17	---	---	0.035B	0.650B	9.17	4.06	0.576	0.030	0.007	0.030B	---	---	17
18	---	---	0.037B	0.923B	8.29	3.78	0.615	0.023	0.007	0.031B	---	---	18
19	---	---	0.041B	1.62 B	7.53	3.47	0.605	0.011	0.006	0.031B	---	---	19
20	---	---	0.036B	2.54 B	6.98	3.34	0.552	0.012	0.007	0.030B	---	---	20
21	---	---	0.035B	3.03 B	6.53	3.34	0.512	0.008	0.006	0.030B	---	---	21
22	---	---	0.033B	3.42 B	6.18	3.13	0.495	0.005	0.007	0.030B	---	---	22
23	---	---	0.030B	4.02 B	5.79	2.76	0.489	0.002	0.009	0.029B	---	---	23
24	---	---	0.034B	4.80 B	5.40	2.38	0.490	0	0.009	0.029B	---	---	24
25	---	---	0.031B	5.40 B	5.15	2.12	0.456	0	0.009	0.029B	---	---	25
26	---	---	0.027B	6.66 B	4.93	1.87	0.446	0	0.011	0.030B	---	---	26
27	---	---	0.029B	7.31 B	4.59	1.69	0.427	0	0.011	0.027B	---	---	27
28	---	---	0.029B	7.71 B	4.16	1.52	0.411	0.001	0.010	0.027B	---	---	28
29	---	---	0.042B	8.78 B	3.77	1.37	0.401	0.002	0.011	0.028B	---	---	29
30	---		0.057B	11.2 B	3.43	1.25	0.395	0.002	0.013	0.028B	---	---	30
31	---		0.071B		3.04		0.346	0.002		0.028B		---	31
TOTAL	---	---	1.123	72.495	296.84	90.75	28.036	2.379	0.157	0.824	---	---	TOTAL
MEAN	---	---	0.036	2.42	9.58	3.03	0.904	0.077	0.005	0.027	---	---	MEAN
MAX	---	---	0.071	11.2	14.8	5.16	2.09	0.316	0.013	0.031	---	---	MAX
MIN	---	---	0.027	0.085	3.04	1.25	0.346	0	0	0.014	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.01
MAXIMUM DAILY, 14.8 ON MAY 09
MINIMUM DAILY, 0 ON AUG 24
MAXIMUM INSTANTANEOUS,
14.9 AT 14:39 MST ON MAY 09

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 15 34 N
LONG 111 27 53 W
DRAINAGE AREA, 358 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2 420
FEB	---	AUG	206
MAR	97.0	SEP	13.6
APR	6 260	OCT	71.2
MAY	25 600	NOV	---
JUN	7 840	DEC	---

TOTAL DISCHARGE, 42 500 dam³

HASTINGS LAKE NEAR DEVILLE - STATION NO. 05EB011

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	736.402	736.384	736.354	736.563	736.521	736.435	736.397	---	1
2	---	---	---	---	736.402	736.382	736.350	736.559	736.519	736.431	---	---	2
3	---	---	---	---	736.400	736.380	736.412	736.555	736.519	736.427	---	---	3
4	---	---	---	---	736.398	736.380	736.444	736.551	736.515	736.423	---	---	4
5	---	---	---	736.325	736.398	736.384	736.448	736.547	736.513	736.431	---	---	5
6	---	---	---	---	736.396	736.382	736.472	736.543	736.511	736.429	---	---	6
7	---	---	---	---	736.396	736.384	736.536	736.539	736.509	736.427	---	---	7
8	---	---	---	---	736.398	736.388	736.556	736.535	736.507	736.425	---	---	8
9	---	---	---	---	736.398	736.386	736.570	736.529	736.505	736.425	---	---	9
10	---	---	---	---	736.396	736.386	---	736.527	736.503	736.423	---	---	10
11	---	---	---	---	736.394	736.388	736.586	736.523	736.499	736.423	---	---	11
12	---	---	---	---	736.394	736.388	736.590	736.519	736.495	736.423	---	---	12
13	---	---	736.255	---	736.392	736.388	736.590	736.515	736.491	736.421	---	---	13
14	---	---	---	---	736.392	736.386	736.588	736.509	736.489	736.421	---	---	14
15	---	---	---	---	736.392	736.384	736.586	736.503	736.487	736.419	---	---	15
16	---	---	---	---	736.390	736.384	736.584	736.515	736.485	736.417	---	---	16
17	---	---	---	---	736.390	736.398	736.592	736.525	736.481	736.417	---	---	17
18	---	---	---	---	736.398	736.394	736.590	736.525	736.475	736.415	---	---	18
19	---	---	---	---	736.396	736.392	736.588	736.529	736.471	736.413	---	---	19
20	---	---	---	---	736.394	736.388	736.588	736.527	736.469	736.409	---	---	20
21	---	---	---	---	736.390	736.384	736.586	736.525	736.467	736.409	---	---	21
22	---	---	---	---	736.400	736.380	736.583	736.521	736.463	736.409	---	---	22
23	---	---	---	---	736.400	736.376	736.579	736.517	736.461	736.407	---	---	23
24	---	---	---	---	736.404	736.372	736.577	736.513	736.459	736.403	---	---	24
25	---	---	---	---	736.402	736.368	736.577	736.507	736.459	736.403	---	---	25
26	---	---	---	---	736.400	736.364	736.580	736.503	736.457	736.401	---	---	26
27	---	---	---	---	736.396	736.362	736.579	736.503	736.455	736.401	---	---	27
28	---	---	---	---	736.394	736.360	736.575	736.499	736.449	736.399	---	---	28
29	---	---	---	---	736.390	736.360	736.571	736.495	736.441	736.399	---	---	29
30	---	---	---	---	736.384	736.356	736.567	736.499	736.439	736.397	---	---	30
31	---	---	---	---	736.388		736.565	736.517		736.397	---	---	31
MEAN	---	---	---	---	736.396	736.380	---	736.524	736.484	736.415	---	---	MEAN
MAX	---	---	---	---	736.404	736.398	---	736.563	736.521	736.435	---	---	MAX
MIN	---	---	---	---	736.384	736.356	---	736.495	736.439	736.397	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 736.592 ON JUL 17

TYPE OF GAUGE - MANUAL
LOCATION - LAT 53 25 30 N
LONG 112 54 02 W

A - MANUAL GAUGE

E - ESTIMATED

DRAINAGE AREA,
279 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

HAY RIVER NEAR HAY RIVER - STATION NO. 07OB001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	8.00B	7.07B	6.41B	6.35B	477B	245	138	55.7	33.3	12.5	10.9 B	5.60B	1
2	7.94B	7.14B	6.39B	6.70B	456	217	132	51.7	31.2	12.3	8.81B	5.31B	2
3	7.88B	7.23B	6.37B	7.05B	422	384	126	47.8	29.6	12.2	8.08B	5.28B	3
4	7.81B	7.32B	6.36B	7.30B	392	386	121	45.4	28.4	11.9	8.03B	5.33B	4
5	7.75B	7.46B	6.34B	7.68B	373	362	118	44.6	26.8	11.9	7.55B	5.28B	5
6	7.67B	7.61B	6.32B	8.31B	370	338	114	48.2	24.4	12.3	7.61B	5.25B	6
7	7.63B	7.67B	6.29B	8.42B	389	335	111	53.9	22.9	12.9	8.06B	5.29B	7
8	7.56B	7.77B	6.29B	8.57B	422	343	108	52.5	21.7	13.8	8.25B	5.22B	8
9	7.50B	7.82B	6.30B	8.41B	460	343	104	49.9	20.3	14.6	8.32B	5.11B	9
10	7.44B	7.93B	6.33B	8.45B	484	334	102	47.0	19.6	15.2	8.09B	4.93B	10
11	7.38B	7.95B	6.33B	8.64B	499	315	101	43.6	18.8	14.9	8.03B	4.88B	11
12	7.31B	7.80B	6.22B	9.13B	507	294	106	41.0	17.8	12.0 B	7.80B	4.81B	12
13	7.25B	7.58B	6.18B	9.72B	506	278	114	38.4	17.1	10.5 B	7.56B	4.85B	13
14	7.19B	7.52B	6.19B	10.3 B	495	270	124	36.2	16.3	10.1 B	7.32B	4.99B	14
15	7.13B	7.33B	6.14B	10.7 B	478	262	115	33.4	15.9	10.1 B	7.28B	5.37B	15
16	7.06B	7.51B	6.06B	11.3 B	456	255	110	30.5	15.1	9.29B	7.06B	5.66B	16
17	7.00B	7.37B	6.00B	12.2 B	433	255	105	27.4	14.5	8.79B	6.79B	5.66B	17
18	6.94B	7.20B	6.00B	13.5 B	410	266	116	25.7	13.9	8.48B	6.31B	5.58B	18
19	6.87B	7.05B	6.03B	15.6 B	388	292	126	24.5	14.0	9.47B	6.16B	5.46B	19
20	6.81B	7.01B	5.94B	19.7 B	367	296	123	23.3	14.1	8.31B	6.04B	5.24B	20
21	6.75B	6.76B	5.89B	27.2 B	348	278	120	21.2	13.8	7.64B	5.89B	5.18B	21
22	6.69B	6.63B	5.99B	40.6 B	331	256	115	20.7	13.9	8.86B	5.90B	4.97B	22
23	6.53B	6.55B	6.14B	57.1 B	314	234	108	23.9	13.4	10.9 B	5.91B	4.73B	23
24	6.65B	6.43B	6.21B	79.2 B	298	215	101	22.0	13.1	9.00B	5.86B	4.46B	24
25	6.59B	6.44B	6.19B	124 B	284	199	96.0	21.4	13.0	8.42B	5.78B	4.42B	25
26	6.70B	6.39B	6.12B	231 B	275	184	90.7	21.2	12.5	7.15B	5.63B	4.51B	26
27	6.73B	6.31B	5.99B	350 B	265	171	84.8	21.3	12.5	6.51B	5.59B	4.34B	27
28	6.67B	6.37B	5.94B	560 B	260	161	79.5	21.5	12.5	6.00B	5.70B	3.97B	28
29	6.72B		5.98B	520 B	256	154	73.3	20.0	12.6	9.27B	5.62B	3.84B	29
30	6.76B		6.00B	494 B	251	146	68.7	18.2	12.6	9.13B	5.68B	3.97B	30
31	6.91B		6.10B		242		61.8	35.4		9.12B		4.11B	31
TOTAL	221.82	201.22	191.04	2 681.13	11 908	8 168	3 312.8	1 092.3	545.6	323.54	211.61	153.60	TOTAL
MEAN	7.16	7.19	6.16	89.4	384	272	107	35.2	18.2	10.4	7.05	4.95	MEAN
MAX	8.00	7.95	6.41	560	507	386	138	55.7	33.3	15.2	10.9	5.66	MAX
MIN	6.53	6.31	5.89	6.35	242	146	61.8	20.7	12.5	6.00	5.59	3.84	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 79.5
MAXIMUM DAILY, 560B ON APR 28
MINIMUM DAILY, 3.84B ON DEC 29

REMARKS - G.S.C. LEVELS TIED INTO THE 1949 CIRCUIT

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 60 44 42 N
LONG 115 51 36 W
DRAINAGE AREA, 47 900 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	19 200	JUL	286 000
FEB	17 400	AUG	94 400
MAR	16 500	SEP	47 100
APR	232 000	OCT	28 000
MAY	1 030 000	NOV	18 300
JUN	706 000	DEC	13 300

TOTAL DISCHARGE, 2 510 000 dam³

HAY RIVER NEAR MEANDER RIVER - STATION NO. 07OB003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	3.71B	3.43B	315	332	112	33.5	7.14	3.06	---	---	1
2	---	---	3.67B	3.70B	291	324	109	32.4	6.81	3.76	---	---	2
3	---	---	3.53B	3.88B	275	293	107	30.5	6.72	4.18	---	---	3
4	---	---	3.46B	4.15B	273	270	104	27.5	6.67	4.12	---	---	4
5	---	---	3.42B	4.48B	279	277	101	26.3	6.64	4.01	---	---	5
6	---	---	3.38B	4.93B	290	288	98.7	25.4	6.38	3.89	---	---	6
7	---	---	3.33B	5.65B	303	285	97.1	24.0	6.00	3.81	---	---	7
8	---	---	3.31B	6.40B	311	276	96.3	23.1	5.64	3.80	---	---	8
9	---	---	3.29B	7.66B	319	259	102	21.9	5.56	3.76	---	---	9
10	---	---	3.25B	9.04B	326	241	110	20.2	5.41	3.72	---	---	10
11	---	---	3.22B	9.64B	333	226	111	18.8	5.30	3.72	---	---	11
12	---	---	3.20B	10.4 B	329	219	108	17.5	5.08	3.69	---	---	12
13	---	---	3.19B	11.4 B	318	214	104	16.0	4.80	3.68	---	---	13
14	---	---	3.16B	12.5 B	302	212	98.3	14.4	4.55	3.66	---	---	14
15	---	---	3.17B	15.2 B	285	217	95.4	13.5	4.54	3.56	---	---	15
16	---	---	3.13B	20.5 B	266	235	92.0	12.2	4.57	3.30	---	---	16
17	---	---	3.11B	25.6 B	251	263	86.9	11.1	4.55	2.95	---	---	17
18	---	---	3.09B	28.4 B	239	257	83.7	10.4	4.54	3.25B	---	---	18
19	---	---	3.08B	30.5 B	228	235	80.0	10.0	4.56	3.06B	---	---	19
20	---	---	3.07B	32.6 B	217	214	76.1	9.59	4.58	2.69B	---	---	20
21	---	3.85B	3.10B	46.4 B	209	196	72.9	9.50	4.83	2.78B	---	---	21
22	---	3.87B	3.11B	58.2 B	202	181	70.4	9.23	4.81A	3.50B	---	---	22
23	---	3.85B	3.10B	127 B	195	167	68.0	9.43	4.42A	3.11B	---	---	23
24	---	3.85B	3.10B	264 B	190	152	64.4	9.37	4.08	2.88B	---	---	24
25	---	3.84B	3.08B	288	186	146	60.0	8.97	3.93	2.75B	---	---	25
26	---	3.81B	3.10B	338	182	138	55.9	8.60	3.86	2.55B	---	---	26
27	---	3.90B	3.11B	356	178	132	52.6	8.26	3.78	2.71B	---	---	27
28	---	3.77B	3.08B	371	177	126	47.6	7.98	3.52	2.69B	---	---	28
29	---		3.09B	367	175	121	42.4	7.74	3.20	2.61B	---	---	29
30	---		3.13B	345	106	116	38.1	7.65	3.07	2.65B	---	---	30
31	---		3.30B		269		35.3	7.46		2.60B		---	31
TOTAL	---	---	100.07	2 810.66	7 901	6 615	2 580.1	492.25	149.62	102.50	---	---	TOTAL
MEAN	---	---	3.23	93.7	255	221	83.2	15.9	4.99	3.31	---	---	MEAN
MAX	---	---	3.71	371	333	332	112	33.5	7.14	4.18	---	---	MAX
MIN	---	---	3.07	3.43	175	116	35.3	7.46	3.07	2.55	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 84.7
MAXIMUM DAILY, 371 ON APR 28
MINIMUM DAILY, 2.55B ON OCT 26
MAXIMUM INSTANTANEOUS, 374 AT 20:30 MST ON APR 28

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 59 08 58 N
LONG 117 38 03 W
DRAINAGE AREA, 36 900 km²

A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	223 000
FEB	---	AUG	42 500
MAR	8 650	SEP	12 900
APR	243 000	OCT	8 860
MAY	603 000	NOV	---
JUN	572 000	DEC	---

TOTAL DISCHARGE, 1 790 000 dam³

HAYNES CREEK NEAR HAYNES - STATION NO. 05CD006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.510	0.072	0.250	0.100	0	0	0	---	---	1
2	---	---	0 B	0.448	0.048	0.365	0.081	0	0	0	---	---	2
3	---	---	0 B	0.376	0.040	0.463	0.093	0	0	0	---	---	3
4	---	---	0 B	0.288	0.038	0.565	0.079	0	0	0	---	---	4
5	---	---	0 B	0.225	0.028	0.734	0.106	0					5
6	---	---	0 B	0.174	0.020	0.843	0.179	0	0	0	---	---	6
7	---	---	0 B	0.149	0.023	0.991	0.202	0	0	0	---	---	7
8	---	---	0 B	0.107	0.013	0.925	0.181	0	0	0	---	---	8
9	---	---	0 B	0.077	0.007	0.741	0.144	0	0	0	---	---	9
10	---	---	0 B	0.076	0.042	0.598	0.114	0.004	0	0	---	---	10
11	---	---	0 B	0.068	0.048	0.529	0.100	0.015	0	0	---	---	11
12	---	---	0.005B	0.058	0.048	0.613	0.093	0.003	0	0	---	---	12
13	---	---	0.050B	0.069	0.076	0.807	0.079	0.001	0	0	---	---	13
14	---	---	0.100B	0.056	0.114	1.39	0.055	0	0	0	---	---	14
15	---	---	0.204B	0.040	0.131	1.47	0.039	0	0	0	---	---	15
16	---	---	0.448B	0.031	0.145	1.24	0.031	0	0	0	---	---	16
17	---	---	0.464B	0.046	0.224	0.960	0.033	0	0	0	---	---	17
18	---	---	0.705B	0.045	0.142	0.703	0.031	0	0	0	---	---	18
19	---	---	1.35 B	0.071	0.139	0.546	0.025	0	0	0	---	---	19
20	---	---	1.43 B	0.052	0.124	0.446	0.020	0	0	0	---	---	20
21	---	---	1.01 B	0.060	0.159	0.388	0.014	0	0	0	---	---	21
22	---	0B	1.10 B	0.059	0.206	0.322	0.010	0	0	0	---	---	22
23	---	0B	0.747	0.111	0.173	0.262	0.007	0	0	0	---	---	23
24	---	0B	0.505	0.132	0.167	0.233	0.005	0	0	0	---	---	24
25	---	0B	0.342	0.130	0.172	0.215	0.003	0	0	0	---	---	25
26	---	0B	0.332	0.119	0.174	0.205	0.002	0	0	0	---	---	26
27	---	0B	0.379	0.105	0.394	0.197	0.001	0	0	0	---	---	27
28	---	0B	0.398	0.106	0.576	0.189	0	0	0	0	---	---	28
29	---		0.481	0.112	0.469	0.166	0	0	0	0A	---	---	29
30	---		0.492	0.089	0.353	0.126	0	0	0	0E		---	30
31	---		0.528		0.280		0	0					31
TOTAL	---	---	11.070	3.992	4.645	17.482	1.827	0.023	0	0	---	---	TOTAL
MEAN	---	---	0.357	0.133	0.150	0.583	0.059	0.001	0	0	---	---	MEAN
MAX	---	---	1.43	0.510	0.576	1.47	0.202	0.015	0	0	---	---	MAX
MIN	---	---	0	0.031	0.007	0.126	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.159
MAXIMUM DAILY, 1.47 ON JUN 15
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
1.53 AT 05:00 MST ON JUN 15

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 19 55 N
LONG 113 21 40 W
DRAINAGE AREA, 166 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	158
FEB	---	AUG	1.99
MAR	956	SEP	0
APR	345	OCT	0
MAY	401	NOV	---
JUN	1 510	DEC	---

TOTAL DISCHARGE, 3 370 dam³

HEART RIVER NEAR NAMPA - STATION NO. 07HA003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.340B	0.227B	0.232B	32.5 B	9.39	1.91	3.86	0.915	0.013	0.009	0.162	0.130B	1
2	0.317B	0.232B	0.227B	35.8 B	9.45	1.80	3.74	0.783	0.013	0.009	0.159	0.126B	2
3	0.283B	0.232B	0.227B	27.6 B	9.74	1.67	3.86	0.680	0.012	0.010	0.154	0.123B	3
4	0.255B	0.238B	0.227B	25.3	9.83	1.86	3.82	0.577	0.012	0.010	0.152B	0.126B	4
5	0.261B	0.244B	0.227B	17.4	9.40	1.69	4.07	0.465	0.012	0.010	0.153	0.130B	5
6	0.261B	0.244B	0.232B	17.5	9.02	1.49	4.09	0.405	0.012	0.010	0.148	0.137B	6
7	0.261B	0.249B	0.227B	13.2	10.1	1.53	3.86	0.304	0.012	0.010	0.145	0.141B	7
8	0.249B	0.249B	0.221B	11.9	10.5	1.48	3.62	0.230	0.012	0.010	0.139	0.141B	8
9	0.255B	0.244B	0.210B	7.43	9.98	1.32	3.39	0.161	0.011	0.011	0.135	0.137B	9
10	0.266B	0.238B	0.215B	8.10	9.11	1.12	3.10	0.148	0.011	0.011	0.123B	0.137B	10
11	0.261B	0.238B	0.215B	7.20	8.66	1.85	2.77	0.102	0.011	0.011	0.115B	0.137B	11
12	0.255B	0.238B	0.232B	6.15	7.66	21.6	2.43	0.106	0.010	0.012	0.119B	0.137B	12
13	0.255B	0.232B	0.261B	5.30	7.12	68.8	2.11	0.175	0.010	0.015	0.119B	0.141B	13
14	0.249B	0.232B	0.289B	4.65	6.63	65.3	1.88	0.132	0.010	0.033	0.126B	0.144B	14
15	0.255B	0.227B	0.300B	5.63	5.75	59.6	1.72	0.093	0.010	0.047	0.134B	0.144B	15
16	0.261B	0.227B	0.317B	4.71	5.90	52.6	1.72	0.084	0.010	0.099	0.134B	0.141B	16
17	0.244B	0.221B	0.369B	5.62	5.05	43.7	1.56	0.071	0.010	0.260	0.130B	0.141B	17
18	0.255B	0.221B	0.685B	7.49	4.68	35.1	1.40	0.064	0.009	0.147	0.130B	0.138B	18
19	0.261B	0.232B	0.848B	7.86	4.34	28.5	1.47	0.067	0.009	0.097	0.130B	0.136B	19
20	0.261B	0.227B	0.921B	10.3	4.37	24.2	1.46	0.060	0.009	0.080	0.126B	0.134B	20
21	0.255B	0.227B	0.821B	12.1	3.63	20.4	1.34	0.052	0.009	0.069	0.126B	0.132B	21
22	0.261B	0.227B	0.643B	12.8	3.21	17.7	1.17	0.035	0.008	0.069	0.126B	0.135B	22
23	0.272B	0.238B	0.753B	12.9	3.22	14.8	1.03	0.033	0.008	0.075	0.123B	0.136B	23
24	0.266B	0.249B	0.660B	12.0	3.22	12.3	0.912	0.032	0.008	0.088	0.123B	0.135B	24
25	0.266B	0.244B	0.660B	12.0	2.77	9.94	0.634	0.028	0.008	0.100	0.123B	0.134B	25
26	0.261B	0.244B	0.634B	12.1	2.70	8.25	0.506	0.022	0.008	0.112	0.119B	0.132B	26
27	0.255B	0.244B	0.575B	11.2	2.57	6.72	0.387	0.016	0.008	0.128	0.137B	0.130B	27
28	0.249B	0.249B	4.21 B	10.5	2.41	5.48	0.265	0.014	0.008	0.134	0.141B	0.127B	28
29	0.244B		8.23 B	9.90	2.29	4.62	0.294	0.013	0.008	0.140	0.137B	0.124B	29
30	0.238B		18.7 B	9.33	2.01	4.09	0.646	0.013	0.009	0.149	0.134B	0.121B	30
31	0.232B		28.7 B		1.87		1.06	0.013		0.157		0.118B	31
TOTAL	8.104	6.614	68.868	376.79	186.61	521.42	64.174	5.893	0.300	2.122	4.022	4.145	TOTAL
MEAN	0.261	0.236	2.22	12.6	6.02	17.4	2.07	0.190	0.010	0.069	0.134	0.134	MEAN
MAX	0.340	0.249	28.7	35.8	10.5	68.8	4.09	0.915	0.013	0.260	0.162	0.144	MAX
MIN	0.232	0.221	0.210	4.65	1.87	1.12	0.265	0.013	0.008	0.009	0.115	0.118	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.42
MAXIMUM DAILY, 68.8 ON JUN 13
MINIMUM DAILY, 0.008 ON SEP 22
MAXIMUM INSTANTANEOUS,
73.2 AT 16:30 MST ON JUN 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 03 20 N
LONG 117 07 42 W
DRAINAGE AREA, 1 960 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	700	JUL	5 540
FEB	571	AUG	509
MAR	5 950	SEP	25.9
APR	32 600	OCT	183
MAY	16 100	NOV	348
JUN	45 100	DEC	358

TOTAL DISCHARGE, 108 000 dam³

HIGHWOOD DIVERSION CANAL NEAR HEADGATES - STATION NO. 05BL025

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0	0.001A	0.141A	1.29	1.23	0.575	0.271	0.009	---	1
2	---	---	---	0	0.001	0.218A	1.27	0.896	0.579	0.264	0.009	---	2
3	---	---	---	0	0.316	0.190A	1.26	0.586	0.582	0.246	0.009	---	3
4	---	---	---	0	0.586	0.312A	1.26	0.584	0.586	0.271	0.009	---	4
5	---	---	---	0	0.555	0.604	1.25	0.576	0.590	0.277	0.009	---	5
6	---	---	---	0	0.578	0.792	1.26	0.571	0.551	0.276	0.009A	---	6
7	---	---	---	0	0.585	1.06	1.25	0.569	0.512	0.272	---	---	7
8	---	---	---	0	0.576	0.490A	1.24	0.659	0.511	0.270	---	---	8
9	---	---	---	0	0.554	0.410A	1.23	0.774	0.517	0.352	---	---	9
10	---	---	---	0	0.553	0.425A	1.27	0.652	0.518	0.391	---	---	10
11	---	---	---	0	0.551	0.574	1.27	0.461	0.520	0.394	---	---	11
12	---	---	---	0	0.546	0.547	1.26	0.236	0.517	0.397	---	---	12
13	---	---	---	0	0.574	0.549	1.28	0.238	0.451	0.404	---	---	13
14	---	---	---	0	0.588	0.736	1.28	0.315	0.262	0.400	---	---	14
15	---	---	---	0	0.585	0.823	1.27	0.532	0.257	0.245	---	---	15
16	---	---	---	0	0.567	0.618	1.43	0.571	0.250	0.012	---	---	16
17	---	---	---	0	0.576	0.625	1.54	0.578	0.257	0.011	---	---	17
18	---	---	---	0	0.581	0.630	1.55	0.593	0.269	0.010	---	---	18
19	---	---	---	0	0.597	0.705	1.57	0.602	0.276	0.010	---	---	19
20	---	---	---	0	0.629	0.863	1.57	0.609	0.274	0.009	---	---	20
21	---	---	---	0	0.660	0.683	1.56	0.612	0.275	0.008	---	---	21
22	---	---	---	0	0.665	0.892	1.56	0.604	0.210	0.008	---	---	22
23	---	---	---	0	0.721E	1.02	1.58	0.555	0.138	0.008	---	---	23
24	---	---	---	0	0.755A	1.04	1.59	0.549	0.134	0.008	---	---	24
25	---	---	---	0	0.657	1.11	1.62	0.543	0.141	0.009	---	---	25
26	---	---	---	0	0.407	1.17	1.60	0.534	0.219	0.009	---	---	26
27	---	---	---	0	0.490A	1.14	1.57	0.523	0.285	0.009	---	---	27
28	---	---	---	0	0.442A	1.15	1.56	0.511	0.268	0.009	---	---	28
29	---	---	0	0	0.598	1.19	1.56	0.521	0.247	0.009	---	---	29
30	---		0	0	0.629A	1.28	1.38	0.557	0.272	0.009	---	---	30
31	---		0		0.326A		1.26	0.565		0.009		---	31
TOTAL	---	---	---	0	16.449	21.989	43.44	17.906	11.043	4.877	---	---	TOTAL
MEAN	---	---	---	0	0.531	0.733	1.40	0.578	0.368	0.157	---	---	MEAN
MAX	---	---	---	0	0.755	1.28	1.62	1.23	0.590	0.404	---	---	MAX
MIN	---	---	---	0	0.001	0.143	1.23	0.236	0.134	0.008	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.541
MAXIMUM DAILY, 1.62 ON JUL 25
MINIMUM DAILY, 0 ON APR 01

SUMMARY FOR THE MONTHS APR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 33 08 N
LONG 113 59 20 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 750
FEB	---	AUG	1 550
MAR	---	SEP	954
APR	0	OCT	421
MAY	1 420	NOV	---
JUN	1 900	DEC	---

TOTAL DISCHARGE, 10 000 dam³

HIGHWOOD RIVER AT DIEBEL'S RANCH - STATION NO. 05BL019

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.29B	1.89	6.26	93.7A	33.6	18.9	5.88	3.33	3.28	---	1
2	---	---	1.16B	2.09	6.50	88.7A	30.5	17.9	5.69	3.46	3.09A	---	2
3	---	---	1.20B	2.45	6.86	79.1	29.9	16.5	5.49	3.43	---	---	3
4	---	---	1.34B	2.34	9.21	72.3	26.5	15.3	5.28	3.58	---	---	4
5	---	---	1.42B	2.34	14.1	63.2	24.4	14.4	5.05	6.38	---	---	5
6	---	---	1.48	2.43	25.3	55.2	23.6	13.5	4.84	5.49	---	---	6
7	---	---	1.60	2.58	24.8	51.4	24.7	12.7	4.57	4.45	---	---	7
8	---	---	1.64B	2.63	20.8	47.7	23.6	12.1	4.45	4.42	---	---	8
9	---	---	1.72	2.38	17.6	45.2	22.2	11.4	4.42	4.32	---	---	9
10	---	---	1.67	2.15B	15.9	49.8	21.4	10.9	4.31	4.48	---	---	10
11	---	---	1.62	2.34B	15.0	53.2	20.5	10.9	4.17	4.21	---	---	11
12	---	---	1.61	2.50	14.2	45.9	19.9	10.9	4.19	4.03	---	---	12
13	---	---	1.64B	2.26	13.7	40.6	19.4	10.1	4.41	4.00	---	---	13
14	---	---	1.62B	2.35	13.7	40.2	18.4	9.59	4.24	3.69	---	---	14
15	---	---	1.62B	2.60	13.1	42.6	17.2	9.09	4.12	3.72	---	---	15
16	---	---	1.50	2.88	12.5	41.9	16.3	8.88	4.03	3.73	---	---	16
17	---	---	1.61	3.12	12.4	40.9	15.4	8.65	4.01	3.26	---	---	17
18	---	---	1.57B	3.98	12.9	40.6	15.4	8.37	3.94	3.55	---	---	18
19	---	---	1.67	5.24	13.2	42.5	16.5	8.83	3.87	3.48	---	---	19
20	---	---	1.66	7.29	13.4	43.7	15.4	8.20	3.86	3.05	---	---	20
21	---	---	1.64B	9.63	13.6	43.7	14.1	7.61	3.77	3.28	---	---	21
22	---	---	1.54B	11.0	14.2	45.4	13.4	7.72	3.72	3.31	---	---	22
23	---	---	1.40B	11.4	16.7	50.0	13.2	7.23	3.59	3.07	---	---	23
24	---	---	1.46B	10.8	28.7	51.1	14.1	7.62	3.51	3.15	---	---	24
25	---	---	1.52B	10.3	117	49.7	20.2	7.57	3.47	3.14	---	---	25
26	---	---	1.58B	9.64	178	46.3	33.5	7.90	3.48	3.37	---	---	26
27	---	0.928B	1.64B	8.53	111	42.8	31.6	7.34	3.51	3.20	---	---	27
28	---	1.20 B	1.71B	7.49	88.7	37.6	27.6	6.92	3.49	3.42	---	---	28
29	---		1.95	6.75	115	33.8	24.1	6.48	3.38	3.42	---	---	29
30	---		1.75	6.04	130	33.7	21.5	6.13	3.36	3.19	---	---	30
31	---		1.88		106		20.2	6.01		3.21		---	31
TOTAL	---	---	48.41	149.62	1 200.33	1 512.5	668.3	315.04	126.10	115.82	---	---	TOTAL
MEAN	---	---	1.56	4.99	38.7	50.4	21.6	10.2	4.20	3.74	---	---	MEAN
MAX	---	---	1.88	11.4	178	93.7	33.6	18.9	5.88	6.38	---	---	MAX
MIN	---	---	1.16	1.89	6.26	33.7	13.2	6.01	3.36	3.05	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 16.9
MAXIMUM DAILY, 178 ON MAY 26
MINIMUM DAILY, 1.16B ON MAR 02
MAXIMUM INSTANTANEOUS,
214 AT 02:39 MST ON MAY 26

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 24 20 N
LONG 114 29 50 W
DRAINAGE AREA, 774 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	57 700
FEB	---	AUG	27 200
MAR	4 180	SEP	10 900
APR	12 900	OCT	10 000
MAY	104 000	NOV	---
JUN	131 000	DEC	---

TOTAL DISCHARGE, 358 000 dam³

HIGHWOOD RIVER BELOW LITTLE BOW CANAL - STATION NO. 05BL004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2.20B	1.05B	1.44B	2.88	9.17	139	34.5	21.3	6.53	3.07	4.16	1.91B	1
2	5.18B	1.10B	1.60B	4.00	10.2	144	32.0	19.8	6.35	3.07	4.06	2.34B	2
3	5.13B	1.20B	1.57B	5.19	12.3	143	30.6	19.3	6.02	3.15	2.30 B	2.47B	3
4	2.04B	1.25B	1.43B	5.30	15.1	118	28.0	16.6	5.72	3.18	2.15 B	2.60B	4
5	2.00B	1.30B	1.47B	3.97	21.6	100	25.0	14.7	5.24	3.82	2.50 B	2.80B	5
6	2.00B	1.35B	1.60B	2.99	33.5	84.1	23.1	13.4	5.03	5.92	2.78 B	3.00B	6
7	2.00B	1.40B	1.80B	3.20	38.7	74.5	24.3	12.3	4.96	4.84	2.40 B	3.10B	7
8	2.00B	1.45B	1.96B	3.87	42.2	67.6	26.2	11.6	4.74	4.27	2.79 B	3.20B	8
9	2.00B	1.50B	2.04B	3.41	27.0	61.6	22.8	10.7	4.56	4.13	2.77 B	3.40B	9
10	2.00B	1.55B	2.10B	2.19	24.9	60.8	20.5	10.1	4.59	4.27	2.89 B	3.52B	10
11	2.00B	1.60B	2.01B	2.11	24.1	65.8	18.9	10.2	4.28	4.55	4.46 B	3.60B	11
12	2.00B	1.62B	2.03B	2.71	22.7	61.4	17.4	10.8	4.07	4.35	5.52 B	3.52B	12
13	2.00B	1.60B	2.09B	2.69	21.6	54.7	16.8	10.6	4.31	4.26	5.13 B	2.67B	13
14	2.00B	1.58B	2.23B	2.75	20.6	52.5	15.5	10.0	4.78	4.22	4.78 B	1.82B	14
15	2.00B	1.56B	2.32B	3.28	19.5	47.3	14.1	9.10	4.54	3.96	4.45 B	2.26B	15
16	1.97B	1.40B	2.24B	4.37	18.3	45.3	12.7	8.75	4.44	4.46	4.11 B	2.08B	16
17	1.93B	1.30B	2.55B	4.75	17.5	46.5	11.7	8.64	4.36	4.33	3.77 B	2.49B	17
18	1.89B	1.20B	2.41B	5.73	18.0	48.0	12.1	10.7	4.27	4.20	3.43 B	2.07B	18
19	1.88B	1.10B	2.75B	8.02	19.3	49.2	14.0	11.0	4.27	4.30	3.12 B	2.20B	19
20	1.84B	1.15B	2.73B	9.05	19.4	49.4	14.6	11.1	4.17	4.06	3.00 B	1.71B	20
21	1.82B	1.18B	2.80B	11.8	20.4	50.3	12.3	9.48	4.09	3.87	2.90 B	1.64B	21
22	1.78B	1.25B	2.37B	14.5	20.3	49.0	10.6	8.22	3.99	4.04	2.50 B	2.37B	22
23	1.75B	1.31B	2.21B	15.7	21.6	51.5	9.47	7.68	3.92	3.91	2.40 B	2.56B	23
24	1.71B	1.35B	1.82B	15.2	30.4	54.0	9.91	8.58	3.82	3.83	2.05 B	2.90B	24
25	1.60B	1.37B	1.99B	14.4	116	52.8	11.7	9.54	3.65	3.81	1.57 B	2.95B	25
26	1.50B	1.39B	2.39B	14.3	265	48.9	32.8	10.5	3.29	3.80	1.09 B	2.32B	26
27	1.30B	1.40B	2.66B	13.4	219	45.6	37.0	9.97	3.03	4.03	0.819B	2.09B	27
28	1.20B	1.39B	2.64B	13.0	183	41.0	32.3	8.69	3.03	3.92	1.07 B	1.68B	28
29	1.10B		2.37B	10.6	164	36.5	28.3	7.70	3.15	4.05	1.47 B	1.63B	29
30	1.00B		3.29	9.51	203	33.9	24.8	7.06	3.09	4.06	2.06 B	1.66B	30
31	1.00B		2.88		178		22.1	6.77		4.02		1.62B	31
TOTAL	55.82	37.90	67.99	214.87	1 816.37	1 975.9	646.08	344.88	132.29	125.75	88.499	76.26	TOTAL
MEAN	1.80	1.35	2.19	7.16	58.6	65.9	20.8	11.1	4.41	4.06	2.95	2.46	MEAN
MAX	2.20	1.62	3.29	15.7	265	144	37.0	21.3	6.53	5.92	5.52	3.60	MAX
MIN	1.00	1.05	1.43	2.11	9.17	33.9	9.47	6.77	3.03	3.07	0.819	1.62	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 15.3
MAXIMUM DAILY, 265 ON MAY 26
MINIMUM DAILY, 0.819B ON NOV 27
MAXIMUM INSTANTANEOUS,
288 AT 12:45 MST ON MAY 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 35 08 N
LONG 113 52 07 W
DRAINAGE AREA, 1 980 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	4 820	JUL	55 800
FEB	3 270	AUG	29 800
MAR	5 870	SEP	11 400
APR	18 600	OCT	10 900
MAY	157 000	NOV	7 650
JUN	171 000	DEC	6 590

TOTAL DISCHARGE, 483 000 dam³

HIGHWOOD RIVER NEAR ALDERSYDE - STATION NO. 05BL009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.44B	4.67B	9.75	136	33.5	21.0	6.97	3.55	---	---	1
2	---	---	1.69B	5.11B	10.2	135	32.1	19.4	6.83	3.51	---	---	2
3	---	---	1.66B	5.46B	12.0	130	29.6	19.5	6.70	3.57	---	---	3
4	---	---	1.46B	5.56B	13.8	115	27.8	17.1	6.49	3.62	---	---	4
5	---	---	1.50B	5.34B	19.3	98.6	24.1	15.3	6.12	3.89	---	---	5
6	---	---	1.75B	4.25B	30.3	83.7	22.0	13.7	5.71	5.95	---	---	6
7	---	---	1.88B	3.83B	40.0	73.3	22.2	12.6	5.78	5.67	---	---	7
8	---	---	2.09B	4.10B	34.3	66.6	24.3	11.9	5.60	4.97	---	---	8
9	---	---	2.09B	4.02B	27.9	59.8	22.6	11.0	5.42	4.77	---	---	9
10	---	---	2.17B	3.55B	24.6	58.1	20.4	10.2	5.31	4.63	---	---	10
11	---	---	2.08B	2.86B	23.7	61.6	18.9	9.98	5.15	4.95	---	---	11
12	---	---	2.10B	3.47B	22.4	58.0	17.8	10.3	4.92	4.72	---	---	12
13	---	---	2.16B	4.00	21.3	51.1	17.1	10.5	4.89	4.57	---	---	13
14	---	---	2.30B	3.87	20.2	48.5	16.5	10.0	5.29	4.47	---	---	14
15	---	---	2.39B	4.12	19.1	44.4	15.5	9.11	5.38	4.29	---	---	15
16	---	---	2.31B	4.64	18.0	42.5	14.3	8.56	5.14	4.54	---	---	16
17	---	---	2.62B	5.10	16.9	44.2	13.3	8.45	5.01	4.52	---	---	17
18	---	---	2.46B	5.26	17.1	45.7	12.7	9.79	4.89	4.18	---	---	18
19	---	---	2.80B	6.29	18.8	47.4	12.8	10.5	4.74	4.22	---	---	19
20	---	0.910B	2.78B	8.18	18.9	46.6	14.1	10.7	4.54	4.11	---	---	20
21	---	1.12 B	2.85B	10.9	19.6	47.3	14.2	9.46	4.45	3.93	---	---	21
22	---	1.21 B	2.42B	13.3	19.4	46.5	12.9	8.18	4.35	3.89	---	---	22
23	---	1.27 B	2.26B	15.0	20.1	48.5	11.5	7.66	4.18	3.87	---	---	23
24	---	1.35 B	1.87B	14.8	27.3	51.6	10.5	7.79	3.99	3.81A	---	---	24
25	---	1.37 B	2.04B	14.1	89.0	50.8	10.5	9.02	3.80	4.13E	---	---	25
26	---	1.39 B	2.44B	13.9	232	48.0	26.0	9.71	3.60	4.15E	---	---	26
27	---	1.40 B	2.71B	13.8	217	45.1	36.7	9.80	3.14	4.30E	---	---	27
28	---	1.39 B	2.69B	13.0	147	41.4	33.5	8.81	3.10	4.20E	---	---	28
29	---		2.59B	11.4	146	37.1	29.1	7.96	3.31	4.14A	---	---	29
30	---		3.13B	10.5	184	33.5	24.6	7.43	3.48	4.01	---	---	30
31	---		4.23B		168		22.0	7.15		3.78A		---	31
TOTAL	---	---	71.14	224.38	1 681.95	1 903.9	643.1	342.56	148.28	132.91	---	---	TOTAL
MEAN	---	---	2.29	7.48	54.3	63.5	20.7	11.1	4.94	4.29	---	---	MEAN
MAX	---	---	4.23	15.0	232	130	36.7	21.0	6.97	5.95	---	---	MAX
MIN	---	---	1.44	2.86	9.75	33.5	10.5	7.15	3.10	3.51	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 21.0
MAXIMUM DAILY, 232 ON MAY 26
MINIMUM DAILY, 1.44B ON MAR 01
MAXIMUM INSTANTANEOUS,
267 AT 19:51 MST ON MAY 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 41 58 N
LONG 113 51 23 W
DRAINAGE AREA, 2 340 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1910

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	55 600
FEB	---	AUG	29 600
MAR	6 150	SEP	12 800
APR	19 400	OCT	11 500
MAY	145 000	NOV	---
JUN	164 000	DEC	---

TOTAL DISCHARGE, 444 000 dam³

HIGHWOOD RIVER NEAR THE MOUTH - STATION NO. 05BL024

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	3.25B	1.38B	3.30B	5.50B	13.9	215	47.3	35.8	14.1	5.65	5.86	2.90B	1
2	3.15B	1.40B	3.50B	6.20B	14.6	247	43.4	34.4	13.4	5.56	5.94	3.35B	2
3	3.28B	1.45B	3.70B	7.60B	18.2	250	41.4	34.8	12.9	5.49	5.17B	3.75B	3
4	3.20B	1.50B	3.90B	8.40B	21.7	199	38.2	29.3	12.3	5.69	4.30B	4.00B	4
5	3.20B	1.60B	4.00B	8.79B	30.4	163	32.9	25.3	11.7	6.26	4.50B	4.30B	5
6	3.20B	1.70B	4.20B	7.29B	44.9	135	29.9	22.7	10.9	8.82	4.80B	4.60B	6
7	3.20B	1.80B	4.40B	6.96	57.4	117	32.8	20.5A	10.6	8.53	5.00B	4.90B	7
8	3.20B	1.90B	4.45B	7.28	49.3	104	36.2	18.7	10.0	7.66	5.40B	5.10B	8
9	3.20B	1.95B	4.40B	7.44	40.3	92.6	31.6	17.2	9.60	7.49	5.70B	5.40B	9
10	3.20B	1.90B	4.27B	5.99	35.6	91.0	28.4	16.3	9.29	7.60	6.00B	5.45B	10
11	3.15B	2.00B	3.63B	5.25	35.1	97.8A	25.7	15.7	8.93	8.23	6.40B	5.29B	11
12	3.10B	2.04B	3.27B	5.74	34.1	89.7E	23.5	16.0	8.71	7.64	6.80B	4.62B	12
13	3.00B	2.08B	3.14B	6.32	32.9	76.7	22.4	16.7	8.79	7.01	7.13B	3.86B	13
14	2.90B	2.08B	3.55B	6.33	32.0	73.3	21.3	15.7	9.02	6.67	7.00B	3.45B	14
15	2.85B	2.05B	3.65B	7.19	31.1	67.3	19.8	14.2	8.83	6.50	6.40B	2.96B	15
16	2.75B	2.00B	3.45B	8.46	28.8	64.6	18.0	13.8	8.32	6.74	5.80B	3.15B	16
17	2.77B	1.90B	3.92B	9.08	27.2	69.3	17.0	14.3	8.02	6.70	5.30B	3.30B	17
18	2.65B	1.85B	3.81E	9.87	28.0	70.0	16.4	25.2	7.83	6.23	4.60B	3.61B	18
19	2.60B	1.80B	4.20B	11.6	30.4	71.1	19.8	28.3	7.63	6.28	4.00B	3.20B	19
20	2.50B	1.85B	4.35B	13.8	30.8	71.3	21.8	24.6	7.44	6.21	3.50B	2.65B	20
21	2.42B	1.92B	4.21B	17.1	32.0	73.9	18.8	20.8	7.22	5.76	3.00B	2.80B	21
22	2.32B	1.95B	3.35B	19.9	32.7	71.6	16.0	17.9	7.06	5.76	2.70B	2.95B	22
23	2.27B	2.00B	3.30B	21.2	33.5	75.0	13.7	16.4	6.88	5.84	2.60B	3.20B	23
24	2.20B	2.10B	2.93B	20.8	44.6	80.6	13.3	17.1	6.69	5.59	2.50B	3.40B	24
25	2.10B	2.20B	2.96B	19.5	149	78.5	16.1	19.9	6.35	5.59	2.40B	3.80B	25
26	2.05B	2.40B	3.60B	18.9	383	73.2	50.2	22.0	6.14	5.54	2.38B	3.50B	26
27	1.90B	2.60B	4.29B	18.4	341	67.1	64.4	21.7	5.69	5.97	2.35B	3.10B	27
28	1.80B	3.10B	4.43B	17.6	248	59.0	59.4	19.4	5.60	6.05	2.36B	2.60B	28
29	1.60B		4.55B	15.7	242	51.6	50.8	17.7	5.60	5.76	2.50B	2.20B	29
30	1.50B		4.85B	14.3	281	46.9	44.5	16.1	5.73	5.95	2.70B	2.00B	30
31	1.38B		5.28B		256		38.6	14.9	5.86	5.87		1.90B	31
TOTAL	81.89	54.58	120.92	338.49	2 679.5	3 042.1	953.6	643.4	261.52	200.64	135.09	111.29	TOTAL
MEAN	2.64	1.95	3.90	11.3	86.4	101	30.8	20.8	8.72	6.47	4.50	3.59	MEAN
MAX	3.28	3.10	5.28	21.2	383	250	64.4	35.8	14.1	8.82	7.13	5.45	MAX
MIN	1.38	1.38	2.93	5.25	13.9	46.9	13.3	13.8	5.60	5.49	2.35	1.90	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 23.6
MAXIMUM DAILY, 383 ON MAY 26
MINIMUM DAILY, 1.38B ON JAN 31
MAXIMUM INSTANTANEOUS, 447 AT 16:30 MST ON MAY 26

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 47 00 N
LONG 113 49 13 W
DRAINAGE AREA, 3 990 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1910

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	7 080	JUL	82 400
FEB	4 720	AUG	55 600
MAR	10 400	SEP	22 600
APR	29 200	OCT	17 300
MAY	232 000	NOV	11 700
JUN	263 000	DEC	9 620

TOTAL DISCHARGE, 746 000 dam³

HILDA LAKE NEAR COLD LAKE - STATION NO. 06AC003

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	---	546.528	---	---	546.373	---	1
2	---	---	---	---	---	---	546.548	---	---	546.398	---	---	2
3	---	---	---	---	---	---	---	546.528	546.468	---	---	---	3
4	---	---	---	---	---	546.585	---	---	---	546.398	---	---	4
5	---	---	---	546.510	---	546.585	546.568	---	---	---	---	---	5
6	---	---	---	---	---	546.575	---	546.528	546.468	546.398	---	---	6
7	---	---	---	---	546.617	---	546.578	---	---	---	---	---	7
8	---	---	546.493	---	546.617	546.575	---	546.528	546.458	546.398	---	---	8
9	---	---	---	---	546.622	---	---	---	---	---	---	---	9
10	---	---	---	---	546.625	546.585	546.588	546.528	---	546.388	---	---	10
11	---	---	---	546.515	546.625	---	---	---	---	546.388	---	---	11
12	---	---	---	---	546.625	---	546.578	---	546.458	546.388	---	---	12
13	---	---	---	---	---	---	546.578	546.518	---	546.388	---	---	13
14	---	---	---	---	---	546.569	---	---	---	546.388	---	---	14
15	---	---	---	---	546.625	---	---	---	---	---	---	---	15
16	---	---	---	---	---	546.538	546.568	546.518	---	546.388	---	---	16
17	---	---	---	---	546.625	---	---	---	546.438	---	---	---	17
18	---	---	---	---	546.625	546.548	546.558	546.508	---	---	---	---	18
19	---	---	---	---	---	546.558	---	---	---	---	---	---	19
20	---	---	---	---	---	---	---	546.498	546.436	---	---	---	20
21	---	---	---	---	546.625	546.538	546.558	---	---	---	---	---	21
22	---	---	---	---	546.630	546.548	---	---	546.428	---	---	---	22
23	---	---	---	---	---	---	546.548	546.498	546.428	---	---	---	23
24	---	---	---	---	546.625	546.538	---	---	---	546.378	---	---	24
25	---	---	---	---	546.620	---	---	546.488	---	---	---	---	25
26	---	---	---	546.586	---	546.528	546.538	---	---	---	---	---	26
27	---	---	---	---	546.617	---	---	---	---	---	---	---	27
28	---	---	---	---	---	546.528	---	---	---	---	---	---	28
29	---	---	---	---	546.615	---	---	---	---	546.368	---	---	29
30	---		---	---	546.605	546.508	546.528	---	---	546.368	---	---	30
31	---		---		546.605		---	546.478		---		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 546.630 ON MAY 22

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 54 31 20 N
LONG 110 24 55 W

A - MANUAL GAUGE
E - ESTIMATED

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

DRAINAGE AREA, 79.8 km²

HINES CREEK ABOVE GERRY LAKE - STATION NO. 07FD011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.04 B	3.25	1.49	2.15	0.028	0	0	---	---	1
2	---	---	0 B	1.23 B	3.18	1.23	2.41	0.026	0.001	0	---	---	2
3	---	---	0 B	1.11 B	3.10	1.21	2.98	0.013	0	0	---	---	3
4	---	---	0 D	1.13 B	3.01	1.10	3.95	0.015	0	0	---	---	4
5	---	---	0 B	0.833B	3.24	1.05	4.00	0.011E	0	0	---	---	5
6	---	---	0 B	0.819B	3.14	0.969	3.33	0.006	0.001	0	---	---	6
7	---	---	0 B	0.766B	3.17	0.908	2.61	0.005	0.001	0	---	---	7
8	---	---	0 B	0.629B	3.14	0.864	2.08	0.002	0.002	0	---	---	8
9	---	---	0 B	0.360B	3.02	0.799	1.78	0	0.001	0	---	---	9
10	---	---	0 B	0.238B	2.79	0.799	1.63	0	0.002	0	---	---	10
11	---	---	0 B	0.236B	2.67	1.66	1.35	0	0.001	0	---	---	11
12	---	---	0 B	0.233B	2.47	7.81	1.20	0	0.002	0	---	---	12
13	---	---	0 B	0.232B	2.20	24.8	1.04	0	0.001	0	---	---	13
14	---	---	0 B	0.341B	2.05	27.8	0.869	0	0.001	0	---	---	14
15	---	---	0.002B	0.508B	2.07	21.2	0.743	0	0.001	0	---	---	15
16	---	---	0.003B	0.769B	1.93	13.3	0.636	0	0.001	0 B	---	---	16
17	---	---	0.002B	1.30 B	1.78	9.04	0.516	0	0.002	0 B	---	---	17
18	---	---	0.001B	1.60 B	1.69	5.98	0.411	0.002	0.001	0 B	---	---	18
19	---	---	0 B	2.20 B	1.80	4.25	0.350	0.001	0.001	0 B	---	---	19
20	---	---	0 B	3.06	1.76	3.37	0.281	0	0.001	0 B	---	---	20
21	---	---	0 B	4.01	1.66	2.89	0.199	0	0.001	0.001B	---	---	21
22	---	---	0 B	4.53	1.55	2.58	0.124	0	0.001	0.002B	---	---	22
23	---	---	0 B	6.32	1.47	2.31	0.082	0.001	0	0.004B	---	---	23
24	---	---	0.003B	7.92	1.37	2.18	0.067	0.002	0.001	0.005B	---	---	24
25	---	---	0.008B	8.19	1.45	2.03	0.063	0.003	0	0.005B	---	---	25
26	---	---	0.014B	7.56	1.61	1.99	0.053	0.002	0	0.004B	---	---	26
27	---	---	0.016B	8.17	1.63	1.95	0.051	0.003	0	0.004B	---	---	27
28	---	OB	0.017B	5.98	1.54	1.94	0.034	0.001	0	0.003B	---	---	28
29	---		0.150B	3.93	1.51	1.89	0.028	0	0	0.003B	---	---	29
30	---		0.435B	3.48	1.48	1.86	0.030	0	0	0.003B	---	---	30
31	---		1.00 B		1.48		0.029E	0		0.003B		---	31
TOTAL	---	---	1.659	78.744	68.11	151.249	35.082	0.121	0.023	0.037	---	---	TOTAL
MEAN	---	---	0.054	2.62	2.20	5.04	1.13	0.004	0.001	0.001	---	---	MEAN
MAX	---	---	1.00	8.19	3.25	27.8	4.00	0.028	0.002	0.005	---	---	MAX
MIN	---	---	0	0.232	1.37	0.799	0.028	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.37
MAXIMUM DAILY, 27.8 ON JUN 14
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
30.3 AT 21:00 MST ON JUN 14

TYPE OF GAUGE - MANUAL
LOCATION - LAT 56 20 03 N
LONG 118 15 46 W
DRAINAGE AREA, 374 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 030
FEB	---	AUG	10.5
MAR	143	SEP	1.99
APR	6 800	OCT	3.20
MAY	5 880	NOV	---
JUN	13 100	DEC	---

TOTAL DISCHARGE, 29 000 dam³

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARK TIME WAS ESTIMATED ON GRAPH.

HINES CREEK NEAR FAIRVIEW - STATION NO. 07FD008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	30.6 B	7.72	2.04	2.22	0.256	0	0	---	---	1
2	---	---	0 B	30.1	7.62	1.95	1.88	0.240E	0	0	---	---	2
3	---	---	0 B	28.1	7.10E	1.83	1.97	0.224	0	0	---	---	3
4	---	---	0 B	20.7	6.24	1.63	1.94	0.199	0	0	---	---	4
5	---	---	0 B	19.9	6.04	1.43	1.95 E	0.175	0	0	---	---	5
6	---	---	0 B	21.5	5.78	1.32	2.18	0.148	0	0.002	---	---	6
7	---	---	0 B	16.4	5.94	1.19	2.40	0.103	0	0.002	---	---	7
8	---	---	0 B	10.5	4.84	1.09	2.30	0.027	0	0.003E	---	---	8
9	---	---	0 B	7.56	4.80E	1.02	2.24 E	0.027E	0	0.004	---	---	9
10	---	---	0 B	6.20	4.75	1.11	2.21	0.027	0	0.006	---	---	10
11	---	---	0 B	6.10	4.68	2.10	2.18	0.025	0	0.009	---	---	11
12	---	---	0 B	4.09	4.52	10.7	2.34	0.018	0	0.012	---	---	12
13	---	---	0 B	3.51	4.48	10.5	2.50	0.013	0	0.007E	---	---	13
14	---	---	0 B	3.49	4.12	9.50	2.62	0.008	0	0.004	---	---	14
15	---	---	0 B	3.32	3.78	9.00	2.40	0.008E	0	0.004	---	---	15
16	---	---	0.003B	3.42	3.59	10.0	2.18	0.008	0	0.004	---	---	16
17	---	---	0.036B	3.61	3.39	11.7	1.97	0.008	0	0.004E	---	---	17
18	---	---	0.120B	3.92	2.95	11.8	1.91	0.009	0	0.004	---	---	18
19	---	---	0.133B	4.36	2.81	14.1	1.85	0.007	0	0.004E	---	---	19
20	---	---	0.060B	4.41	2.72E	14.0	1.82	0.002	0	0.004	---	---	20
21	---	---	0.033B	4.41	2.66	13.4	1.74 E	0.001E	0	0.004E	---	---	21
22	---	---	0.027B	4.38	2.45	12.1	1.64	0.003	0	0.004	---	---	22
23	---	---	0.047B	4.50E	2.79	9.60	1.33	0.002	0	0.007E	---	---	23
24	---	---	0.095B	5.55	2.61	9.88	0.785	0.001E	0	0.012	---	---	24
25	---	---	0.202B	7.04	3.08	8.06	0.615E	0	0	0.012E	---	---	25
26	---	---	0.276B	5.68	3.22	6.22	0.442	0	0	0.012	---	---	26
27	---	---	0.618B	7.66	3.08	4.97	0.345	0	0	0.012	---	---	27
28	---	OB	4.90 B	8.83	3.01	3.73	0.300	0	0	0.012E	---	---	28
29	---		12.4 B	10.5	2.91	3.47	0.284	0	0	0.012	---	---	29
30	---		29.6 B	7.72	2.64	1.86	0.268	0	0	0.015	---	---	30
31	---		29.8 B		2.10		0.258E	0		0.014		---	31
TOTAL	---	---	78.350	298.08	128.42	191.30	51.067	1.539	0	0.189	---	---	TOTAL
MEAN	---	---	2.53	9.94	4.14	6.38	1.65	0.050	0	0.006	---	---	MEAN
MAX	---	---	29.8	30.6	7.72	14.1	2.62	0.256	0	0.015	---	---	MAX
MIN	---	---	0	3.32	2.10	1.02	0.258	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.06
MAXIMUM DAILY, 30.6B ON APR 01
MINIMUM DAILY, 0B ON MAR 01

TYPE OF GAUGE - MANUAL
LOCATION - LAT 56 04 05 N
LONG 118 39 35 W
DRAINAGE AREA, 1 240 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	4 410
FEB	---	AUG	133
MAR	6 770	SEP	0
APR	25 800	OCT	16.3
MAY	11 100	NOV	---
JUN	16 500	DEC	---

TOTAL DISCHARGE, 64 700 dam³

HOUSE RIVER AT HIGHWAY NO. 63 - STATION NO. 07CB002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.247B	0.600B	15.0	8.12	4.50	1.69	0.624	0.549	---	---	1
2	---	---	0.249B	0.717B	15.2 A	7.62	4.06	1.04	0.597	0.576	---	---	2
3	---	---	0.256B	0.806B	14.5 A	6.99	3.84	0.717	0.590	0.628	---	---	3
4	---	---	0.252B	1.66 B	14.1 A	6.44	4.24	0.699	0.553	0.655	---	---	4
5	---	---	0.262B	1.95 B	14.1 A	6.09	4.16	0.619	0.501	0.768	---	---	5
6	---	---	0.287B	1.71 B	14.2 A	5.76	3.83	0.580	0.542	0.720A	---	---	6
7	---	---	0.235B	2.16 B	15.7	5.42	3.79	0.558	0.511	0.694	---	---	7
8	---	---	0.247B	1.64 B	16.6	5.21	3.44	0.778	0.455	0.680	---	---	8
9	---	---	0.233B	2.20 B	17.8	5.03	3.26	0.569	0.422	0.668	---	---	9
10	---	---	0.234B	2.40 B	18.5 A	4.93	3.01	0.451	0.396	0.951A	---	---	10
11	---	---	0.236B	1.60 B	19.0 A	6.43	2.80	0.334	0.392	1.01	---	---	11
12	---	---	0.249B	0.746B	19.0 A	8.71	2.59	0.250	0.398	1.14	---	---	12
13	---	---	0.253B	0.733B	18.9	10.2	2.44	0.242	0.441	1.19	---	---	13
14	---	---	0.255B	0.733B	18.3	11.1	2.29	0.167	0.446	1.14	---	---	14
15	---	---	0.255B	0.695B	17.6	11.6	2.22	0.244	0.557	1.20 B	---	---	15
16	---	---	0.200B	0.788B	17.0	11.0 A	2.01	0.534	0.690	1.13 B	---	---	16
17	---	---	0.270B	0.867B	16.4	10.5	1.81	0.675	0.761	1.08	---	---	17
18	---	---	0.275B	1.27 B	15.6	9.96	1.65	0.579	0.799	1.07	---	---	18
19	---	---	0.315B	3.20 B	15.0	9.34	1.60	0.572	1.01 A	1.01	---	---	19
20	---	---	0.289B	5.20 B	14.4	8.80	1.53	0.571	1.37 A	1.02 B	---	---	20
21	---	---	0.324B	4.95 B	13.9	8.33	1.41	0.588	1.23 A	1.00 B	---	---	21
22	---	---	0.311B	7.32 B	13.5	8.01	1.23	0.550	0.751A	1.08 B	---	---	22
23	---	---	0.295B	8.25 B	12.7	7.70	1.18	0.545	0.622A	1.01	---	---	23
24	---	---	0.318B	9.60 B	12.3	7.31	1.22	0.519	0.561	1.46 A	---	---	24
25	---	---	0.328B	10.7	11.9	6.81	1.15	0.493	0.450	1.21	---	---	25
26	---	---	0.326B	11.2	11.3	6.42	0.982	0.458	0.400	1.12	---	---	26
27	---	0.227B	0.321B	12.9	10.8	6.01	1.10	0.457	0.381	1.25 B	---	---	27
28	---	0.234B	0.335B	14.0	10.1	5.78	0.926	0.389	0.373	1.37 B	---	---	28
29	---		0.392B	14.7	9.69	5.59	0.868	0.303	0.390	0.950B	---	---	29
30	---		0.402B	14.8	8.84	5.00	0.763	0.379	0.602	0.850B	---	---	30
31	---		0.211B		8.68		0.945	0.684		0.815B		---	31
TOTAL	---	---	9.042	140.095	450.61	226.21	70.844	17.234	17.815	29.494	---	---	TOTAL
MEAN	---	---	0.292	4.67	14.5	7.54	2.29	0.556	0.594	0.951	---	---	MEAN
MAX	---	---	0.511	14.8	19.0	11.6	4.50	1.69	1.37	1.46	---	---	MAX
MIN	---	---	0.200	0.600	8.68	4.93	0.763	0.167	0.373	0.549	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.92
MAXIMUM DAILY, 19.0A ON MAY 11
MINIMUM DAILY, 0.167 ON AUG 14
MAXIMUM INSTANTANEOUS,
19.1 AT 14:45 MST ON MAY 11

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 38 30 N
LONG 112 09 25 W
DRAINAGE AREA, 764 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	6 120
FEB	---	AUG	1 490
MAR	781	SEP	1 540
APR	12 100	OCT	2 550
MAY	38 900	NOV	---
JUN	19 500	DEC	---

TOTAL DISCHARGE, 83 000 dam³

IOSEGUN RIVER NEAR LITTLE SMOKY - STATION NO. 07GG003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.26 B	3.01B	17.2	11.9	6.87	2.14	3.83	1.04	---	---	1
2	---	---	1.27 B	3.73B	16.9	12.4	6.45	1.96	8.49	1.18	---	---	2
3	---	---	1.28 B	4.32B	16.2	11.4	7.93	1.99	6.26	1.28	---	---	3
4	---	---	1.35 B	6.25B	15.8	10.8	18.7	1.81	4.16	1.36	---	---	4
5	---	---	1.42 B	7.75B	15.4	12.1	35.0	1.69	3.23	1.59	---	---	5
6	---	---	1.45 B	7.70B	14.9	19.0	31.8	1.60	2.57	1.71	---	---	6
7	---	---	1.48 B	8.45B	14.5	20.4	28.2	1.45	2.04	1.96	---	---	7
8	---	---	1.61 B	7.85B	14.3	17.2	26.9	1.34	1.68	2.22	---	---	8
9	---	---	1.37 B	6.65B	14.7	14.8	29.5	1.18	1.32	2.41	---	---	9
10	---	---	0.950B	5.05B	14.1	13.5	21.7	1.09	1.08	2.79	---	---	10
11	---	---	0.840B	4.85B	13.4	15.1	16.7	1.01	0.926	2.82	---	---	11
12	---	---	0.850B	6.10B	12.5	41.7	13.5	0.950	0.819	3.57	---	---	12
13	---	---	1.01 B	6.25B	11.8	68.6	11.2	0.975	0.729	3.93	---	---	13
14	---	---	1.30 B	6.00B	11.8	78.1	9.14	1.12	0.563	3.76	---	---	14
15	---	---	1.75 B	7.14	11.7	71.7	7.67	1.11	0.467	3.66	---	---	15
16	---	---	1.95 B	8.01	11.4	58.6	6.39	1.36	0.485	3.24B	---	---	16
17	---	---	1.72 B	9.32	10.7	45.7	5.61	1.43	0.696	2.92B	---	---	17
18	---	---	1.86 B	10.8	10.2	36.4	5.15	1.55	0.621	2.78B	---	---	18
19	---	---	2.24 B	12.6	9.94	30.3	4.78	1.68	0.729	3.30B	---	---	19
20	---	---	2.17 B	16.4	10.2	25.6	4.51	1.76	1.23	3.72B	---	---	20
21	---	---	1.42 B	18.3	10.9	20.5	4.08	1.63	1.09	3.56B	---	---	21
22	---	---	1.23 B	16.7	11.5	17.7	3.70	1.61	0.901	3.10B	---	---	22
23	---	---	1.13 B	16.7	11.8	15.9	3.42	1.27	0.813	3.26B	---	---	23
24	---	---	0.996B	20.4	11.6	14.3	3.19	1.14	1.06	3.18B	---	---	24
25	---	---	1.03 B	27.0	11.3	12.6	2.96	1.07	1.04	3.28B	---	---	25
26	---	1.09B	1.10 B	30.9	13.0	10.3	2.85	1.08	0.960	3.28B	---	---	26
27	---	1.20B	1.43 B	28.4	15.9	8.34	3.05	1.07	0.950	3.24B	---	---	27
28	---	1.26B	2.30 B	23.4	14.6	7.49	3.20	1.02	0.969	3.32B	---	---	28
29	---		2.40 B	20.2	12.9	6.76	2.99	0.916	0.958	3.32B	---	---	29
30	---		2.99 B	18.2	11.7	6.88	2.71	1.03	1.04	2.98B	---	---	30
31	---		2.98 B		11.3		2.43	1.71		3.76B		---	31
TOTAL	---	---	48.136	372.73	404.14	736.07	342.28	42.741	51.706	87.62	---	---	TOTAL
MEAN	---	---	1.55	12.4	13.0	24.5	11.0	1.38	1.72	2.83	---	---	MEAN
MAX	---	---	2.99	30.9	17.2	78.1	36.9	2.14	8.49	3.93	---	---	MAX
MIN	---	---	0.840	3.01	9.94	6.76	2.43	0.916	0.467	1.04	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 8.51
MAXIMUM DAILY, 78.1 ON JUN 14
MINIMUM DAILY, 0.467 ON SEP 15
MAXIMUM INSTANTANEOUS,
79.2 AT 10:00 MST ON JUN 14

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 44 43 N
LONG 117 09 04 W
DRAINAGE AREA, 1 950 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	29 600
FEB	---	AUG	3 690
MAR	4 160	SEP	4 470
APR	32 200	OCT	7 570
MAY	34 900	NOV	---
JUN	63 600	DEC	---

TOTAL DISCHARGE, 180 000 dam³

IRON CREEK NEAR HARDISTY - STATION NO. 05FB002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.003B	3.92 B	0.530	0.258	0.053	0.549	0.025	0.002	---	---	1
2	---	---	0.003B	6.22 B	0.509	0.401	0.044	0.764	0.026	0.002	---	---	2
3	---	---	0.003B	10.4 B	0.515	0.389	0.076	1.36	0.028	0.004	---	---	3
4	---	---	0.004B	8.15 B	0.482	0.306	0.049	1.41	0.040	0.004	---	---	4
5	---	---	0.004B	6.10	0.487	0.529	0.084	1.27	0.066	0.007	---	---	5
6	---	---	0.006B	5.23	0.408	0.718	0.140	1.06	0.086	0.010	---	---	6
7	---	---	0.004B	4.48	0.353	0.860	0.173	0.873	0.096	0.009	---	---	7
8	---	---	0.014B	3.94	0.402	0.916	0.243	0.688	0.110	0.007	---	---	8
9	---	---	0.024B	3.46	0.495	0.890	0.309	0.690	0.117	0.005	---	---	9
10	---	---	0.009B	3.00	0.512	0.868	0.358	0.721	0.101	0.002	---	---	10
11	---	---	0.012B	2.68	0.438	0.884	0.474	0.455	0.086	0.002	---	---	11
12	---	---	0.007B	2.43	0.383	0.897	0.614	0.396	0.080	0.002	---	---	12
13	---	---	0.005B	2.22	0.345	0.975	0.765	0.284	0.068	0.001	---	---	13
14	---	---	0.003B	1.99	0.264	0.925	1.74	0.202	0.062	0.003	---	---	14
15	---	---	0.003B	1.82	0.288	0.869	2.72	0.165	0.055	0.006	---	---	15
16	---	---	0.006B	1.66	0.254	0.758	3.00	0.176	0.050	0.007	---	---	16
17	---	---	0.005B	1.53	0.396	0.583	2.92	0.132	0.045	0.008	---	---	17
18	---	---	0.003B	1.42	0.335	0.596	2.71	0.150	0.040	0.012	---	---	18
19	---	---	0.012B	1.30	0.310	0.511	2.45	0.111	0.035	0.017	---	---	19
20	---	---	0.029B	1.19	0.302	0.479	2.24	0.082	0.030	0.020	---	---	20
21	---	0.002B	0.015B	1.11	0.263	0.498	2.05	0.037	0.025	0.023	---	---	21
22	---	0.002B	0.011B	1.06	0.234	0.401	1.88	0.022	0.022	0.024	---	---	22
23	---	0.002B	0.003B	0.999	0.200	0.234	1.76	0.019	0.018	0.025	---	---	23
24	---	0.002B	0.003B	0.943	0.187	0.205	1.62	0.004	0.015	0.025	---	---	24
25	---	0.002B	0.003B	0.876	0.150	0.189	1.48	0.003	0.011	0.025	---	---	25
26	---	0.002B	0.010B	0.829	0.127	0.153	1.37	0.003	0.002	0.019	---	---	26
27	---	0.002B	0.041B	0.746	0.112	0.132	1.33	0.006	0.001	0.015	---	---	27
28	---	0.003B	0.155B	0.648	0.106	0.096	1.19	0.010	0.001	0.015	---	---	28
29	---		1.85 B	0.640	0.242	0.098	1.03	0.017	0.004	0.007	---	---	29
30	---		3.27 B	0.586	0.301	0.044	0.807	0.021	0.004	0.003A	---	---	30
31	---		3.33 B		0.283		0.704	0.025		0.003E		---	31
TOTAL	---	---	9.050	81.577	10.213	15.762	36.463	11.805	1.349	0.314	---	---	TOTAL
MEAN	---	---	0.292	2.72	0.330	0.525	1.18	0.381	0.045	0.010	---	---	MEAN
MAX	---	---	3.33	10.4	0.530	0.975	3.00	1.41	0.117	0.025	---	---	MAX
MIN	---	---	0.003	0.586	0.106	0.044	0.044	0.003	0.001	0.001	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.680
MAXIMUM DAILY, 10.4B ON APR 03
MINIMUM DAILY, 0.001 ON SEP 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 42 28 N
LONG 111 18 36 W
DRAINAGE AREA, 3 500 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 150
FEB	---	AUG	1 020
MAR	782	SEP	117
APR	7 050	OCT	27.1
MAY	882	NOV	---
JUN	1 360	DEC	---

TOTAL DISCHARGE, 14 400 dam³

IRON CREEK NEAR VIKING - STATION NO. 05FB003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.943	0.003	0	0	0	0.020	0	---	---	1
2	---	---	0 B	0.789	0.002	0	0	0	0.009	0	---	---	2
3	---	---	0 B	0.722	0.002	0	0.008	0	0.003	0	---	---	3
4	---	---	0.002B	0.518	0.002	0	0.076	0	0.001	0	---	---	4
5	---	---	0.005B	0.428	0.002	0	0.083	0	0.001	0	---	---	5
6	---	---	0.010B	0.342	0.001	0	0.018	0	0	0	---	---	6
7	---	---	0.015B	0.274	0.001	0	0.413	0	0	0	---	---	7
8	---	---	0.020B	0.249	0.002	0	0.496	0	0	0	---	---	8
9	---	---	0.022B	0.200B	0.002	0	0.424	0	0	0	---	---	9
10	---	---	0.025B	0.116B	0.002	0	0.276	0	0	0	---	---	10
11	---	---	0.022B	0.092B	0.001	0	0.167	0	0	0	---	---	11
12	---	---	0.018B	0.082	0.001	0.001	0.125	0	0	0	---	---	12
13	---	---	0.015B	0.071	0.001	0.001	0.149	0	0	0	---	---	13
14	---	---	0.020B	0.061	0.001	0	0.153	0	0	0	---	---	14
15	---	---	0.030B	0.051	0.001	0	0.131	0	0	0	---	---	15
16	---	---	0.050B	0.046	0.001	0	0.109	0	0	0	---	---	16
17	---	---	0.100B	0.041	0	0	0.068	0	0	0	---	---	17
18	---	---	0.200B	0.034	0.002	0	0.074	0	0	0	---	---	18
19	---	---	0.400B	0.027	0.002	0	0.044	0	0	0	---	---	19
20	---	---	0.603B	0.022	0.002	0	0.029	0	0	0	---	---	20
21	---	---	0.413B	0.018	0.001	0	0.022	0	0	0	---	---	21
22	---	---	0.226B	0.015	0.001	0	0.012	0	0	0	---	---	22
23	---	---	0.200B	0.012	0.001	0	0.009	0	0	0	---	---	23
24	---	---	0.178B	0.009	0	0	0.006	0	0	0	---	---	24
25	---	---	0.191B	0.008	0	0	0.003	0	0	0	---	---	25
26	---	---	0.286B	0.006	0	0	0.005	0	0	0	---	---	26
27	---	0B	0.480B	0.006	0	0	0.008	0	0	0	---	---	27
28	---	0B	0.755B	0.005	0	0	0.008	0.001	0	0	---	---	28
29	---		0.900B	0.003	0	0	0.006	0.001	0	0	---	---	29
30	---		0.980	0.003	0	0	0.004	0.002	0	0	---	---	30
31	---		1.05		0		0.002	0.008		0A		---	31
TOTAL	---	---	7.216	5.193	0.034	0.002	2.928	0.012	0.034	0	---	---	TOTAL
MEAN	---	---	0.233	0.173	0.001	0	0.095	0	0.001	0	---	---	MEAN
MAX	---	---	1.05	0.943	0.003	0.001	0.496	0.008	0.020	0	---	---	MAX
MIN	---	---	0	0.003	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.063
MAXIMUM DAILY, 1.05 ON MAR 31
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
1.09 AT 18:01 MST ON MAR 31

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 00 58 N
LONG 111 54 07 W
DRAINAGE AREA, 121 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	253
FEB	---	AUG	1.04
MAR	623	SEP	2.94
APR	449	OCT	0
MAY	2.94	NOV	---
JUN	0.173	DEC	---

TOTAL DISCHARGE, 1 330 dam³

ISLE LAKE AT EUREKA BEACH - STATION NO. 05EA008

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	729.732	729.781	729.858	730.040	729.914	729.784	---	---	1
2	---	---	---	---	---	729.751	729.858	730.105	729.914	729.914	---	---	2
3	---	---	---	---	---	729.811	729.998	730.045	729.914	729.914	---	---	3
4	---	---	---	---	---	729.752	730.009	730.035	729.914	729.784	---	---	4
5	---	---	---	---	---	729.762	730.019	730.025	729.914	729.814	---	---	5
6	---	---	---	---	---	729.772	730.069	730.015	729.914	729.814	---	---	6
7	---	---	---	---	---	729.772	730.099	730.005	729.954	729.804	---	---	7
8	---	---	---	---	---	729.773	730.120	729.995	729.964	729.804	---	---	8
9	---	---	---	729.742	729.761	729.773	730.120	729.985	729.904	729.814	---	---	9
10	---	---	---	---	729.762	729.773	730.120	729.975	729.894	729.904	---	---	10
11	---	---	---	---	729.763	729.813	730.120	729.975	729.884	729.864	---	---	11
12	---	---	---	---	729.763	729.814	730.120	729.975	729.884	729.834	---	---	12
13	---	---	729.632	---	729.774	729.814	730.141	729.995	729.884	729.904	---	---	13
14	---	---	---	---	729.764	729.824	730.141	729.985	729.884	729.904	---	---	14
15	---	---	---	---	729.765	729.824	730.121	729.975	729.884	729.784	---	---	15
16	---	---	---	---	729.765	729.814	730.141	730.015	729.884	729.784	---	---	16
17	---	---	---	---	729.766	729.835	730.142	729.965	729.889	729.764	---	---	17
18	---	---	---	---	729.776	729.845	730.122	729.955	729.864	729.914	---	---	18
19	---	---	---	---	729.767	729.845	730.122	729.935	729.864	729.934	---	---	19
20	---	---	---	---	729.767	729.855	730.122	729.935	729.864	729.764	---	---	20
21	---	---	---	---	729.778	729.866	730.123	729.935	729.864	729.904	---	---	21
22	---	---	---	---	729.768	729.896	730.073	729.985	729.864	729.894	---	---	22
23	---	---	---	---	729.769	729.896	730.073	730.055	729.854	729.764	---	---	23
24	---	---	---	---	729.750	729.846	730.073	729.935	729.854	729.864	---	---	24
25	---	---	---	---	729.749	729.847	730.073	729.935	729.844	729.764	---	---	25
26	---	---	---	---	729.750	729.847	730.074	729.935	729.854	729.914	---	---	26
27	---	---	729.662	---	729.760	729.847	730.144	729.935	729.844	729.754	---	---	27
28	---	---	---	---	729.770	729.847	730.054	730.075	729.824	729.914	---	---	28
29	---		---	---	729.760	729.847	730.054	730.064	729.804	729.884	---	---	29
30	---		---	---	729.751	729.848	730.055	730.094	729.794	729.854	---	---	30
31	---		---		729.761		730.055	729.924		729.744		---	31
MEAN	---	---	---	---	---	729.820	730.078	729.994	729.880	729.840	---	---	MEAN
MAX	---	---	---	---	---	729.896	730.144	730.105	729.964	729.934	---	---	MAX
MIN	---	---	---	---	---	729.751	729.858	729.924	729.794	729.744	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 730.144 ON JUL 27

TYPE OF GAUGE - MANUAL
LOCATION - LAT 53 37 22 N
LONG 114 42 01 W

A - MANUAL GAUGE
E - ESTIMATED

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

DRAINAGE AREA, 278 km²

JACKFISH CREEK NEAR LA COREY - STATION NO. 06AC001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.230B	0.251B	1.90	0.298	0.007	0.002	0.007	0.001	0.001B	---	1
2	---	---	0.228B	0.294B	1.85	0.254	0.007	0.001	0.007	0.001	---	---	2
3	---	---	0.225B	0.360B	1.79	0.225	0.023	0.001	0.007	0.001	---	---	3
4	---	---	0.220B	0.409B	1.72	0.205	0.026	0.001	0.006	0.001	---	---	4
5	---	---	0.223B	0.642B	1.67	0.185	0.017	0.001	0.005	0.001	---	---	5
6	---	---	0.225B	0.692B	1.59	0.165	0.006	0.001	0.004	0.001	---	---	6
7	---	---	0.230B	0.582B	1.57	0.162	0.004	0.001	0.003	0.001	---	---	7
8	---	---	0.237B	0.505B	1.55	0.146	0.008	0.001	0.002	0.001	---	---	8
9	---	---	0.233B	0.480B	1.50	0.110	0.012	0.001	0.002	0.001	---	---	9
10	---	---	0.228B	0.486B	1.45	0.058	0.028	0.001	0.001	0.001	---	---	10
11	---	---	0.225B	0.506B	1.41	0.056	0.023	0.001	0.001	0.001	---	---	11
12	---	---	0.223B	0.502	1.36	0.029	0.026	0.001	0.003	0.001	---	---	12
13	---	---	0.221B	0.483	1.30	0.029	0.026	0.001	0.004	0.001	---	---	13
14	---	---	0.219B	0.469	1.24	0.011	0.027	0.001	0.004	0.002	---	---	14
15	---	---	0.217B	0.453	1.19	0.001	0.028	0.001	0.003	0.002	---	---	15
16	---	---	0.212B	0.449	1.12	0.001	0.023	0.003	0.002	0.001	---	---	16
17	---	---	0.211B	0.498	1.06	0.001	0.019	0.004	0.001	0.001	---	---	17
18	---	---	0.208B	0.622	1.03	0.001	0.014	0.004	0.001	0.001	---	---	18
19	---	---	0.205B	1.77	1.00	0.001	0.011	0.004	0.001	0.001	---	---	19
20	---	---	0.200B	2.02	0.942	0.001	0.010	0.003	0.001	0.001	---	---	20
21	---	---	0.200B	2.09	0.883	0.010	0.011	0.002	0.001	0.001	---	---	21
22	---	---	0.200B	2.13	0.826	0.012	0.016	0.002	0.001	0.001	---	---	22
23	---	---	0.199B	2.13	0.757	0.007	0.016	0.001	0.001	0.001	---	---	23
24	---	---	0.199B	2.07	0.700	0.005	0.014	0.001	0.001	0.001	---	---	24
25	---	---	0.200B	2.08	0.628	0.005	0.011	0.001	0.001	0.001	---	---	25
26	---	---	0.199B	2.06	0.578	0.004	0.008	0.001	0.001	0.001	---	---	26
27	---	---	0.199B	2.01	0.519	0.006	0.007	0.001	0.001	0.001	---	---	27
28	---	---	0.198B	2.00	0.469	0.006	0.005	0.001	0.001	0.001	---	---	28
29	---	---	0.198B	1.97	0.434	0.006	0.004	0.001	0.001	0.001	---	---	29
30	---		0.211B	1.92	0.394	0.006	0.002	0.001	0.001	0.001B	---	---	30
31	---		0.229B		0.354		0.002	0.006		0.001B		---	31
TOTAL	---	---	6.652	32.933	34.784	2.914	0.441	0.052	0.075	0.033	---	---	TOTAL
MEAN	---	---	0.215	1.10	1.12	0.067	0.014	0.002	0.003	0.001	---	---	MEAN
MAX	---	---	0.237	2.13	1.90	0.298	0.028	0.006	0.007	0.002	---	---	MAX
MIN	---	---	0.198	0.251	0.354	0.001	0.002	0.001	0.001	0.001	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.314
MAXIMUM DAILY, 2.13 ON APR 22
MINIMUM DAILY, 0.001 ON JUN 15
MAXIMUM INSTANTANEOUS,
2.27 AT 13:10 MST ON APR 19

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 26 30 N
LONG 110 41 10 W

DRAINAGE AREA, 489 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	38.1
FEB	---	AUG	4.49
MAR	575	SEP	6.49
APR	2 850	OCT	2.85
MAY	3 010	NOV	---
JUN	174	DEC	---

TOTAL DISCHARGE, 6 660 dam³

JACKFISH RIVER BELOW CHRISTINA LAKE - STATION NO. 07CE005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.32B	1.28B	11.6	8.04	5.71	1.57	0.758	0.555	---	---	1
2	---	---	1.35B	1.29B	12.5	7.63	5.54	1.44	0.731	0.597	---	---	2
3	---	---	1.37B	1.30B	13.1	7.18	5.30	1.39	0.707	0.606	---	---	3
4	---	---	1.40B	1.31B	13.6	6.74	5.36	1.42	0.692	0.592	---	---	4
5	---	---	1.42B	1.30B	14.1	6.20	5.32	1.38	0.689	0.589	---	---	5
6	---	---	1.40B	1.25B	14.3	5.74	5.24	1.33	0.702	0.586	---	---	6
7	---	---	1.38B	1.20B	15.0	5.39	5.05	1.18	0.668	0.601	---	---	7
8	---	---	1.35B	1.16B	15.3	4.99	4.93	1.14	0.642	0.613	---	---	8
9	---	---	1.33B	1.14B	15.4	4.79	4.87	1.12	0.675	0.620	---	---	9
10	---	---	1.35B	1.20B	15.8	4.50	4.72	1.12	0.667	0.673	---	---	10
11	---	---	1.37B	1.50B	16.6 A	5.76	4.56	1.10	0.661	0.655	---	---	11
12	---	---	1.39B	1.71	17.0	5.91	4.39	1.07	0.677	0.672	---	---	12
13	---	---	1.42B	1.74	17.5	6.79	3.94	1.10	0.659	0.687	---	---	13
14	---	---	1.43B	1.74	17.8	7.65	3.53	1.04	0.657	0.686	---	---	14
15	---	---	1.44B	1.73	17.6	8.50	3.50	1.02	0.665	0.692	---	---	15
16	---	---	1.42B	1.74	16.8	9.07	3.41	1.03	0.673	0.708	---	---	16
17	---	---	1.40B	1.81	16.6	9.45	3.17	1.02	0.630	0.710	---	---	17
18	---	---	1.37B	1.98	16.0	9.75	2.96	0.983	0.612	0.724	---	---	18
19	---	---	1.33B	2.33	15.5	9.79	2.85	0.947	0.629	0.712	---	---	19
20	---	---	1.27B	2.56	15.1	9.75	2.74	0.905	0.606	0.694	---	---	20
21	---	---	1.22B	2.93	14.6	9.62	2.58	0.878	0.613	0.711	---	---	21
22	---	---	1.18B	3.37	14.0	9.25	2.43	0.889	0.613	0.714	---	---	22
23	---	---	1.14B	3.95	13.4	8.71	2.34	0.788	0.620	0.682A	---	---	23
24	---	---	1.15B	5.12	12.9	8.12	2.24	0.753	0.611	0.675E	---	---	24
25	---	---	1.16B	6.15	12.3	7.73	2.17	0.762	0.588	0.700E	---	---	25
26	---	---	1.10B	7.62	11.6	7.30	2.06	0.775	0.560	0.710E	---	---	26
27	---	---	1.19B	9.63	10.9	6.99	1.93	0.745	0.572	0.700E	---	---	27
28	---	---	1.21B	10.1	10.5	6.65	1.81	0.721	0.595	0.690E	---	---	28
29	---	---	1.23B	10.6	10.1	6.39	1.81	0.712	0.599	0.680E	---	---	29
30	---		1.25B	10.9	9.49	6.12	1.77	0.713	0.567	0.670E	---	---	30
31	---		1.26B		8.89		1.68	0.743		0.660E		---	31
TOTAL	---	---	40.68	101.64	435.88	220.44	109.91	31.784	19.338	20.564	---	---	TOTAL
MEAN	---	---	1.31	3.39	14.1	7.35	3.55	1.03	0.645	0.663	---	---	MEAN
MAX	---	---	1.44	10.9	17.8	9.79	5.71	1.57	0.758	0.724	---	---	MAX
MIN	---	---	1.14	1.14	8.89	4.50	1.68	0.712	0.560	0.555	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.00
MAXIMUM DAILY, 17.8 ON MAY 14
MINIMUM DAILY, 0.555 ON OCT 01
MAXIMUM INSTANTANEOUS,
18.0 AT 12:05 MST ON MAY 14

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 40 25 N
LONG 111 06 00 W
DRAINAGE AREA, 1 290 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	9 500
FEB	---	AUG	2 750
MAR	3 510	SEP	1 670
APR	8 780	OCT	1 780
MAY	37 700	NOV	---
JUN	19 000	DEC	---

TOTAL DISCHARGE, 84 700 dam³

JACKPINE CREEK AT WADLIN LAKE ROAD - STATION NO. 07JD003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.007B	0.018B	9.08	2.31	0.736	0.053	0	0.001	---	---	1
2	---	---	0.007B	0.019B	8.12	2.14	0.710	0.051	0	0.002	---	---	2
3	---	---	0.006B	0.020B	7.35	1.99	0.515	0.041	0	0.003	---	---	3
4	---	---	0.006B	0.020B	7.07	1.86	0.437	0.031	0.001	0.003	---	---	4
5	---	---	0.005B	0.020B	7.33	1.75	0.365	0.017	0.001	0.003	---	---	5
6	---	---	0.005B	0.018B	8.00	1.71	0.325	0.013	0	0.003	---	---	6
7	---	---	0.005B	0.035B	9.66	1.65	0.277	0.012	0	0.003	---	---	7
8	---	---	0.005B	0.562B	11.5	1.57	0.220	0.008	0	0.003	---	---	8
9	---	---	0.005B	1.34 B	11.1	1.50	0.187	0.008	0	0.004	---	---	9
10	---	---	0.005B	2.39 B	11.8	1.40	0.195	0.005	0	0.003	---	---	10
11	---	---	0.005B	2.55 B	11.2	1.39	0.173	0.004	0	0.003	---	---	11
12	---	---	0.005B	1.69 B	10.4	1.88	0.157	0.004	0	0.003	---	---	12
13	---	---	0.006B	1.56 B	9.51	2.17	0.156	0.004	0	0.004	---	---	13
14	---	---	0.007B	1.68 B	8.5	1.94	0.153	0.003	0	0.004	---	---	14
15	---	---	0.007B	1.80 B	7.64	2.53	0.138	0.002	0	0.004	---	---	15
16	---	---	0.007B	1.28 B	6.76	8.37	0.079	0.002	0	0.006B	---	---	16
17	---	---	0.007B	1.15 B	6.02	13.1	0.048	0.002	0	0.014B	---	---	17
18	---	---	0.006B	2.23 B	5.72	13.9	0.048	0.001	0	0.014B	---	---	18
19	---	---	0.006B	4.17 B	5.29	10.4	0.078	0.002	0.001	0.018B	---	---	19
20	---	---	0.005B	4.91 B	4.76	6.28	0.070	0.002	0.001	0.017B	---	---	20
21	---	---	0.005B	5.81 B	4.42	4.22	0.049	0.002	0.001	0.016B	---	---	21
22	---	---	0.005B	8.09 B	4.21	3.28	0.048	0.002	0.001	0.017B	---	---	22
23	---	0.005B	0.005B	10.0	4.05	2.72	0.051	0.002	0.001	0.017B	---	---	23
24	---	0.005B	0.005B	11.1	3.94	2.24	0.051	0.004	0.001	0.017B	---	---	24
25	---	0.005B	0.005B	12.5	3.80	1.84	0.041	0.003	0.001	0.018B	---	---	25
26	---	0.006B	0.005B	14.8	3.74	1.55	0.040	0.002	0.001	0.018B	---	---	26
27	---	0.006B	0.005B	15.6	3.43	1.31	0.059	0.002	0.001	0.017B	---	---	27
28	---	0.007B	0.008B	14.8	3.16	1.14	0.080	0.001	0	0.019B	---	---	28
29	---		0.010B	12.4	2.91	0.955	0.077	0.001	0.001	0.022B	---	---	29
30	---		0.014B	10.4	2.69	0.819	0.069	0.001	0.001	0.020B	---	---	30
31	---		0.017B		2.46		0.047	0		0.020B		---	31
TOTAL	---	---	0.201	143.162	206.76	99.914	5.682	0.286	0.013	0.316	---	---	TOTAL
MEAN	---	---	0.007	4.77	6.67	3.33	0.183	0.009	0	0.010	---	---	MEAN
MAX	---	---	0.017	15.6	12.1	13.9	0.736	0.053	0.001	0.022	---	---	MAX
MIN	---	---	0.005	0.018	2.46	0.819	0.040	0	0	0.001	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.86
MAXIMUM DAILY, 15.6 ON APR 27
MINIMUM DAILY, 0 ON AUG 31
MAXIMUM INSTANTANEOUS,
15.7 AT 06:00 MST ON APR 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 11 35 N
LONG 115 45 00 W
DRAINAGE AREA, 582 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	491
FEB	---	AUG	24.7
MAR	17.4	SEP	1.12
APR	12 400	OCT	27.3
MAY	17 900	NOV	---
JUN	8 630	DEC	---

TOTAL DISCHARGE, 39 500 dam³

JAMES RIVER NEAR SUNDRE - STATION NO. 05CA002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.910B	5.63B	7.12	48.9	7.55	6.16	3.30	1.80	---	---	1
2	---	---	0.945B	6.04B	9.79	103	7.93	5.83	3.16	1.86	---	---	2
3	---	---	0.948B	7.23B	10.8	98.0	16.4	5.56	2.99	1.86	---	---	3
4	---	---	0.936B	5.33B	9.40	59.4	13.8	5.21	2.90	1.78	---	---	4
5	---	---	0.923B	4.14B	8.56	47.0	10.0	4.67	2.76	1.90	---	---	5
6	---	---	0.952B	3.77B	8.40	41.8	9.68	4.35	2.66	2.00	---	---	6
7	---	---	0.921B	4.23B	8.10	36.7	18.4	4.01	2.61	2.00	---	---	7
8	---	---	0.910B	3.96B	7.93	30.1	16.0	3.85	2.49	1.88	---	---	8
9	---	---	1.00 B	3.13B	8.51	25.0	11.3	3.85	2.37	1.87	---	---	9
10	---	---	1.05 B	2.80B	8.83	21.9	9.03	3.79	2.36	2.00	---	---	10
11	---	---	1.15 B	2.72B	9.20	23.7	7.77	3.67	2.26	2.12	---	---	11
12	---	---	1.18 B	2.98B	10.1	35.3	6.98	3.52	2.29	2.10	---	---	12
13	---	---	1.50 B	3.94B	10.9	35.8	6.20	3.48	2.51	2.06	---	---	13
14	---	---	1.55 B	5.38B	10.5	40.6	5.77	3.36	2.58	1.93B	---	---	14
15	---	---	1.40 B	6.10B	9.88	28.5	5.35	3.21	2.37	1.74B	---	---	15
16	---	---	1.15 B	5.81	9.51	25.5	5.64	3.30	2.25	1.98B	---	---	16
17	---	---	1.00 B	5.29	9.72	26.1	6.38	4.01	2.20	1.70B	---	---	17
18	---	---	1.33 B	5.93	10.3	21.3	5.82	4.29	2.15	1.87B	---	---	18
19	---	---	1.25 B	6.63	11.3	18.7	7.49	5.18	2.09	1.84B	---	---	19
20	---	---	1.22 B	7.47	11.4	18.4	7.62	4.54	2.09	1.67B	---	---	20
21	---	---	1.18 B	7.11	12.0	18.5	6.50	3.90	2.05	1.65B	---	---	21
22	---	---	1.11 B	7.03	12.9	15.5	5.87	3.72	2.00	1.86B	---	---	22
23	---	0.909B	1.05 B	7.24	11.4	13.7	5.44	4.12	1.94	1.53B	---	---	23
24	---	0.935B	1.00 B	8.75	11.0	12.0	5.23	4.33	1.89	1.74	---	---	24
25	---	0.920B	0.960B	8.52	58.4	12.5	7.91	4.50	1.85	1.94	---	---	25
26	---	0.842B	1.02 B	7.74	93.0	10.6	9.92	5.10	1.91	1.83	---	---	26
27	---	0.820B	1.09 B	7.15	56.9	9.62	7.99	5.41	1.82	1.81B	---	---	27
28	---	0.882B	1.79 B	6.40	38.9	9.72	6.73	4.60	1.84	1.81	---	---	28
29	---		1.85 B	5.73	34.9	9.66	6.23	4.06	1.83	1.74A	---	---	29
30	---		1.94 B	5.49	38.1	8.45	5.88	3.72	1.82	1.74E	---	---	30
31	---		4.11 B		47.9		5.90	3.49		1.74E		---	31
TOTAL	---	---	39.325	169.75	607.65	986.95	258.71	132.99	69.34	57.35	---	---	TOTAL
MEAN	---	---	1.27	5.66	19.6	32.9	8.35	4.29	2.31	1.85	---	---	MEAN
MAX	---	---	4.11	8.75	93.0	103	18.4	6.16	3.30	2.12	---	---	MAX
MIN	---	---	0.910	2.72	7.12	8.45	5.23	3.21	1.82	1.53	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN, 9.48
MAXIMUM DAILY, 183 ON JUN 02
MINIMUM DAILY, 0.910B ON MAR 01
MAXIMUM INSTANTANEOUS,
237 AT 12:30 MST ON JUN 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 55 37 N
LONG 114 41 04 W
DRAINAGE AREA, 821 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	22 400
FEB	---	AUG	11 500
MAR	3 400	SEP	5 990
APR	14 700	OCT	4 960
MAY	52 500	NOV	---
JUN	85 300	DEC	---

TOTAL DISCHARGE, 201 000 dam³

JAYDOT RESERVOIR NEAR JAYDOT - STATION NO. 11AB098

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	920.480	920.950	920.887E	920.976	920.806	920.629	920.444	920.295	---	---	1
2	---	---	920.480	920.948	920.881A	920.966	920.799	920.619	920.441	920.293	---	---	2
3	---	---	920.484	920.946	920.869	920.963	920.792	920.609	920.433	920.285	---	---	3
4	---	---	920.592	920.939	920.866	920.960	920.780	920.604	920.426	920.280	---	---	4
5	---	---	920.940	920.932	920.861	920.953	920.778	920.600	920.422	920.275	---	---	5
6	---	---	921.092	920.929	920.858	920.947	920.775	920.594	920.416	920.268	---	---	6
7	---	---	921.081	920.929	920.853	920.947	920.767	920.588	920.410	920.265	---	---	7
8	---	---	921.048	920.927	920.840	920.942	920.761	920.577	920.405	920.265	---	---	8
9	---	---	921.027	920.918	920.839	920.936	920.756	920.568	920.399	920.264	---	---	9
10	---	---	921.025	920.911A	920.834	920.933	920.751	920.561	920.395	920.261	---	---	10
11	---	---	921.038	920.913E	920.829	920.924	920.743	920.554	920.391	920.256	---	---	11
12	---	---	921.014	920.915E	920.826	920.918	920.734	920.548	920.386	920.252A	---	---	12
13	---	---	921.010	920.916E	920.826	920.912	920.728	920.542	920.380	920.250E	---	---	13
14	---	---	921.004	920.918E	920.823	920.907	920.721	920.535	920.374	920.248E	---	---	14
15	---	---	920.999	920.920E	920.825	920.900	920.714	920.530	920.369	920.246E	---	---	15
16	---	---	920.987	920.921E	920.825	920.898	920.708	920.523	920.362	920.245E	---	---	16
17	---	---	921.005	920.922A	920.823	920.893	920.699	920.518	920.357	920.243E	---	---	17
18	---	---	921.061	920.919E	920.822	920.887	920.690	920.513	920.352	920.242E	---	---	18
19	---	---	921.047	920.917E	920.822	920.882	920.684	920.510	920.351	920.240E	---	---	19
20	---	---	921.026	920.914E	920.817	920.873	920.677	920.508	920.348	920.239E	---	---	20
21	---	---	921.016	920.912E	920.821	920.869	920.670	920.500	920.342	920.237E	---	---	21
22	---	920.489A	920.993	920.909E	920.822	920.865	920.665	920.492	920.335	920.236E	---	---	22
23	---	920.483	920.980	920.906E	920.819	920.865	920.662	920.488	920.333	920.235E	---	---	23
24	---	920.477	920.972	920.902E	920.828	920.854	920.656	920.483	920.333	920.234E	---	---	24
25	---	920.481	920.971	920.900E	921.061	920.849	920.650	920.482	920.329	920.232E	---	---	25
26	---	920.479	920.969	920.898E	921.046	920.843	920.649	920.485	920.323	920.230A	---	---	26
27	---	920.477	920.965	920.895E	921.022	920.837	920.648	920.487	920.313	920.228	---	---	27
28	---	920.478	920.963	920.892E	921.005	920.826	920.643	920.483	920.306	920.229	---	---	28
29	---		920.955	920.891E	920.994	920.818	920.637	920.468	920.299	920.227	---	---	29
30	---		920.955	920.888E	920.992	920.813	920.633	920.459	920.296	920.236A	---	---	30
31	---		920.954		920.985		920.634	920.451		920.235E		---	31
MEAN	---	---	920.940	920.917	920.878	920.899	920.710	920.533	920.369	920.251	---	---	MEAN
MAX	---	---	921.092	920.950	921.061	920.976	920.806	920.629	920.444	920.295	---	---	MAX
MIN	---	---	920.480	920.888	920.817	920.813	920.633	920.451	920.296	920.227	---	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MAXIMUM DAILY, 921.092 ON MAR 06
MINIMUM DAILY, 920.227 ON OCT 29
MAXIMUM INSTANTANEOUS,
921.150 AT 21:05 CST ON MAR 06

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 10 32 N
LONG 110 00 52 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

DRAINAGE AREA,
19.7 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

JOHNSTON CREEK NEAR THE MOUTH - STATION NO. 05BA006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.604	21.1	12.7	3.28	1.46	0.759E	---	---	1
2	---	---	---	---	0.591	16.8	11.0	2.88	1.42	0.756E	---	---	2
3	---	---	---	---	0.591	14.2	12.0	2.61	1.37	0.770E	---	---	3
4	---	---	---	---	0.663	12.3	9.57	2.47	1.32	0.969A	---	---	4
5	---	---	---	---	1.03	9.11	9.80	2.47	1.28	1.09	---	---	5
6	---	---	---	---	1.59	6.80	13.8	2.52	1.24	0.958	---	---	6
7	---	---	---	---	1.53	6.02	13.2	2.51	1.21	0.880	---	---	7
8	---	---	---	---	1.41	5.55	11.9	2.38	1.20	0.881	---	---	8
9	---	---	---	---	1.32	5.72	11.6	2.28	1.17	0.860	---	---	9
10	---	---	---	---	1.24	9.23	11.1	2.23	1.14	0.876	---	---	10
11	---	---	---	---	1.21	12.3	10.9	2.21	1.13	0.819	---	---	11
12	---	---	---	---	1.20	9.07	11.5	2.24	1.12	0.827	---	---	12
13	---	---	---	---	1.18	6.99	11.5	2.22	1.11	0.815	---	---	13
14	---	---	---	---	1.21	6.31	9.86	2.14	1.07	0.778	---	---	14
15	---	---	---	---	1.16	8.00	7.40	2.09	1.05	0.775	---	---	15
16	---	---	---	---	1.15	9.99	6.83	2.04	1.18	0.775	---	---	16
17	---	---	---	---	1.20	11.1	5.81	1.90	1.13	0.755	---	---	17
18	---	---	---	---	1.24	11.8	4.89	1.81	1.05	0.709	---	---	18
19	---	---	---	---	1.13	11.3	4.81	1.78	1.02	0.750	---	---	19
20	---	---	---	---	1.45	11.4	4.08	1.73	0.987	0.809	---	---	20
21	---	---	---	---	1.70	12.7	3.62	1.74	0.942	1.04	---	---	21
22	---	---	---	---	1.72	15.9	3.57	1.86	0.921	0.859	---	---	22
23	---	---	---	---	2.13	19.3	3.93	1.85	0.916	0.801	---	---	23
24	---	---	---	---	3.07	20.2	4.76	1.72	0.879	0.878	---	---	24
25	---	---	---	0.720A	7.14	19.0	4.51	1.70	0.870	0.734	---	---	25
26	---	---	---	0.774	14.2	16.8	4.17	1.67	0.843	0.796	---	---	26
27	---	---	---	0.722	9.19	14.9	3.71	1.59	0.784A	0.720	---	---	27
28	---	---	---	0.663	7.88	13.2	3.61	1.52	0.786E	0.752	---	---	28
29	---	---	---	0.579	11.4	12.5	3.17	1.48	0.777E	0.718	---	---	29
30	---		---	0.571	19.2	13.5	3.08	1.50	0.768E	0.759A	---	---	30
31	---		---		15.5		3.17	1.51		0.759E		---	31
TOTAL	---	---	---	---	116.029	365.09	235.55	63.93	32.143	25.507	---	---	TOTAL
MEAN	---	---	---	---	3.74	12.2	7.60	2.06	1.07	0.823	---	---	MEAN
MAX	---	---	---	---	19.2	21.1	13.8	3.28	1.46	1.09	---	---	MAX
MIN	---	---	---	---	0.591	5.55	3.08	1.48	0.768	0.718	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.56
MAXIMUM DAILY, 21.1 ON JUN 01
MINIMUM DAILY, 0.591 ON MAY 02
MAXIMUM INSTANTANEOUS,
26.9 AT 19:51 MST ON JUN 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 14 40 N
LONG 115 50 30 W
DRAINAGE AREA, 124 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	20 400
FEB	---	AUG	5 520
MAR	---	SEP	2 780
APR	---	OCT	2 200
MAY	10 000	NOV	---
JUN	31 500	DEC	---

TOTAL DISCHARGE, 72 400 dam³

JOSLYN CREEK NEAR FORT MACKAY - STATION NO. 07DA016

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.010B	0.156B	2.65	0.884	0.342	0.194	0.011	0.024	---	---	1
2	---	---	0.010B	0.336B	3.81	0.854	0.401	0.232	0.011	0.039	---	---	2
3	---	---	0.010B	0.265B	6.30	0.829	0.728	0.221	0.013	0.047	---	---	3
4	---	---	0.010B	0.133B	9.06	0.759	0.737	0.227	0.009	0.065	---	---	4
5	---	---	0.010B	0.091B	10.9	0.695	0.631	0.218	0.009	0.107	---	---	5
6	---	---	0.011B	0.138B	9.95	0.641	0.551	0.212	0.009	0.117	---	---	6
7	---	---	0.011B	0.170B	11.8	0.566	0.517	0.260	0.009	0.117	---	---	7
8	---	---	0.011B	0.210B	14.8	0.502	0.541	0.260	0.010	0.118	---	---	8
9	---	---	0.011B	0.235B	14.6	0.447	0.498	0.159	0.014	0.114	---	---	9
10	---	---	0.011B	0.265B	13.2	0.378	0.435	0.120	0.012	0.104	---	---	10
11	---	---	0.011B	0.300B	10.1	0.554	0.417	0.099	0.012	0.103	---	---	11
12	---	---	0.012B	0.345B	6.74	1.19	0.461	0.083	0.012	0.101	---	---	12
13	---	---	0.012B	0.400B	5.00	2.34	0.406	0.081	0.012	0.099	---	---	13
14	---	---	0.013B	0.480B	3.87	2.31	0.299	0.087	0.013	0.100	---	---	14
15	---	---	0.014B	0.570B	3.11	2.10	0.236	0.090	0.013	0.099	---	---	15
16	---	---	0.014B	0.700B	2.70	1.66	0.198	0.083	0.013	0.101	---	---	16
17	---	---	0.015B	0.900B	2.22	1.37	0.245	0.079	0.014	0.101	---	---	17
18	---	---	0.016B	1.10 B	1.91	1.19	0.229	0.083	0.014	0.101	---	---	18
19	---	---	0.018B	1.50 B	1.92	1.11	0.208	0.081	0.014	0.097	---	---	19
20	---	---	0.017B	2.00 B	1.77	1.15	0.221	0.053	0.014	0.095	---	---	20
21	---	---	0.017B	3.30 B	2.06	1.07	0.199	0.029	0.014	0.096B	---	---	21
22	---	---	0.017B	5.98	2.57	0.947	0.214	0.020	0.013	0.097B	---	---	22
23	---	---	0.018B	7.20	2.35	0.810	0.190	0.022	0.014	0.097B	---	---	23
24	---	---	0.019B	8.14	2.40	0.684	0.187	0.016	0.014	0.098B	---	---	24
25	---	---	0.018B	8.04	2.03	0.564	0.172	0.016	0.014	0.100B	---	---	25
26	---	---	0.018B	5.70	1.79	0.443	0.157	0.015	0.014	0.098B	---	---	26
27	---	---	0.020B	3.00 B	1.63	0.349	0.164	0.011	0.014	0.096B	---	---	27
28	---	---	0.023B	2.30 B	1.38	0.275	0.180	0.012	0.015	0.095B	---	---	28
29	---	---	0.031B	1.90 B	1.23	0.242	0.182	0.011	0.019	0.094B	---	---	29
30	---		0.040B	2.25 B	1.21	0.278	0.181	0.011	0.029	0.092B	---	---	30
31	---		0.076B		0.979		0.182	0.013		0.090B		---	31
TOTAL	---	---	0.544	58.104	156.039	27.193	10.309	3.117	0.398	2.902	---	---	TOTAL
MEAN	---	---	0.018	1.94	5.03	0.906	0.333	0.101	0.013	0.094	---	---	MEAN
MAX	---	---	0.076	8.14	14.8	2.34	0.737	0.260	0.029	0.118	---	---	MAX
MIN	---	---	0.010	0.091	0.979	0.242	0.157	0.011	0.009	0.024	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.06
MAXIMUM DAILY, 14.8 ON MAY 08
MINIMUM DAILY, 0.009 ON SEP 04
MAXIMUM INSTANTANEOUS,
16.5 AT 17:51 MST ON MAY 08

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 16 27 N
LONG 111 44 30 W
DRAINAGE AREA, 257 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	891
FEB	---	AUG	269
MAR	47.0	SEP	34.4
APR	5 020	OCT	251
MAY	13 500	NOV	---
JUN	2 350	DEC	---

TOTAL DISCHARGE, 22 400 dam³

JUMPINGPOUND CREEK NEAR COX HILL - STATION NO. 05BH013

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.260	5.49	0.529	0.871	0.388	0.133	0.106B	---	1
2	---	---	---	---	0.301	8.96	0.541	0.777	0.359	0.136	---	---	2
3	---	---	---	---	0.374	6.49	0.526	0.689	0.340	0.134	---	---	3
4	---	---	---	---	0.570	4.50	0.498	0.620	0.314	0.160	---	---	4
5	---	---	---	---	0.868	3.24	0.444	0.566	0.294	0.234	---	---	5
6	---	---	---	---	1.15	2.50	0.421	0.515	0.275	0.168	---	---	6
7	---	---	---	---	1.09	2.02	0.584	0.464	0.254	0.150B	---	---	7
8	---	---	---	---	0.925	1.67	0.488	0.424	0.245	0.138B	---	---	8
9	---	---	---	---	0.804	1.43	0.454	0.385	0.234	0.158	---	---	9
10	---	---	---	---	0.746	1.35	0.426	0.356	0.223	0.175	---	---	10
11	---	---	---	---	0.717	1.20	0.401	0.346	0.213	0.154	---	---	11
12	---	---	---	---	0.707	1.08	0.375	0.357	0.243	0.147	---	---	12
13	---	---	---	---	0.692	1.16	0.351	0.331	0.260	0.139	---	---	13
14	---	---	---	---	0.712	1.17	0.337	0.291	0.218	0.130B	---	---	14
15	---	---	---	---	0.700	1.18	0.321	0.270	0.204	0.125B	---	---	15
16	---	---	---	---	0.708	1.20	0.310	0.258	0.194	0.126B	---	---	16
17	---	---	---	---	0.755	1.19	0.300	0.314	0.187	0.105B	---	---	17
18	---	---	---	---	0.806	1.11	0.304	0.617	0.179	0.092	---	---	18
19	---	---	---	---	0.838	1.04	0.347	0.450	0.175	0.092B	---	---	19
20	---	---	---	0.323A	0.941	1.03	0.292	0.389	0.169	0.089B	---	---	20
21	---	---	---	0.429	1.25	0.952	0.266	0.490	0.164	0.094B	---	---	21
22	---	---	---	0.442	1.30	0.878	0.243	0.611	0.161	0.089B	---	---	22
23	---	---	---	0.461	1.42	0.826	0.245	0.579	0.156	0.100B	---	---	23
24	---	---	---	0.454	2.36	0.795	0.266	0.643	0.150	0.111	---	---	24
25	---	---	---	0.416	11.0	0.736	0.565	0.620	0.148	0.136	---	---	25
26	---	---	---	0.367	9.62	0.686	1.14	0.618	0.145	0.139	---	---	26
27	---	---	---	0.329	6.38	0.648	1.77	0.586	0.143	0.126B	---	---	27
28	---	---	---	0.289	4.86	0.610	1.57	0.545	0.143	0.140B	---	---	28
29	---	---	---	0.253	4.94	0.560	1.29	0.506	0.136	0.126B	---	---	29
30	---	---	---	0.248	5.05	0.579	1.10	0.475	0.136	0.127B	---	---	30
31	---		---		4.21		0.975	0.426		0.123B		---	31
TOTAL	---	---	---	---	67.054	56.300	17.679	15.389	6.450	4.096	---	---	TOTAL
MEAN	---	---	---	---	2.16	1.88	0.570	0.496	0.215	0.132	---	---	MEAN
MAX	---	---	---	---	11.0	8.96	1.77	0.871	0.388	0.234	---	---	MAX
MIN	---	---	---	---	0.260	0.579	0.243	0.258	0.136	0.089	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.907
MAXIMUM DAILY, 11.0 ON MAY 25
MINIMUM DAILY, 0.089B ON OCT 20
MAXIMUM INSTANTANEOUS,
13.4 AT 19:12 MST ON MAY 25

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 00 09 N
LONG 114 56 14 W
DRAINAGE AREA, 36 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 530
FEB	---	AUG	1 330
MAR	---	SEP	557
APR	---	OCT	354
MAY	5 790	NOV	---
JUN	4 860	DEC	---

TOTAL DISCHARGE, 14 400 dam³

JUMPINGPOUND CREEK NEAR THE MOUTH - STATION NO. 05BH009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.425B	0.075B	0.405B	1.95 B	1.48	22.0	1.91	9.08	3.24	0.742	1.03	0.930B	1
2	0.400B	0.080B	0.400B	2.00 B	2.45	37.8	1.87	7.86	2.97	0.718	0.968B	1.00 B	2
3	0.382B	0.120B	0.395B	1.80 B	5.31	44.3	3.39	6.32	2.74	0.711	0.899B	1.08 B	3
4	0.370B	0.160B	0.380B	1.56 B	4.41	30.1	3.35	5.21	2.63	0.720	0.865B	1.12 B	4
5	0.365B	0.200B	0.365B	1.10 B	3.93	22.8	2.59	4.09	2.47	0.946	0.850B	1.10 B	5
6	0.370B	0.215B	0.350B	0.900B	4.11	19.5	2.02	3.29	2.24	1.32	0.840B	1.19 B	6
7	0.380B	0.200B	0.345B	0.780B	4.45	17.5	2.21	2.67	1.96	1.32	0.845B	1.20 B	7
8	0.395B	0.160B	0.340B	0.720B	4.12	13.5	2.61	2.28	1.69	1.27	0.850B	1.20 B	8
9	0.400B	0.170B	0.335B	0.700B	3.55	11.3	2.09	1.92	1.47	1.30	0.860B	1.18 B	9
10	0.395B	0.200B	0.330B	0.737B	3.26	9.90	2.02	1.80	1.34	1.69	0.870B	1.12 B	10
11	0.390B	0.215B	0.327B	0.850B	3.34	9.10	1.52	1.70	1.26	2.09	0.890B	1.05 B	11
12	0.370B	0.200B	0.325B	1.10 B	3.74	8.60	1.29	1.68	1.20	1.97	0.910B	1.00 B	12
13	0.330B	0.140B	0.330B	1.79 B	4.61	8.41	1.13	1.86	1.28	1.68	0.945B	0.900B	13
14	0.305B	0.070B	0.335B	1.80	4.70	9.90	1.10	1.95	1.45	1.44	0.960B	0.800B	14
15	0.300B	0.045B	0.350B	1.54	4.78	8.66	1.25	1.68	1.33	1.30	0.965B	0.720B	15
16	0.310B	0.040B	0.380B	1.60	4.37	7.00	1.09	2.03	1.22	1.23	0.950B	0.560B	16
17	0.320B	0.045B	0.390B	1.77	4.01	10.9	0.950	3.95	1.17	1.52	0.930B	0.580B	17
18	0.340B	0.055B	0.380B	1.86	3.91	8.88	0.982	10.7	1.13	1.30	0.880B	0.527B	18
19	0.365B	0.080B	0.345B	1.78	4.01	6.63	1.43	13.2	1.09	1.19	0.820B	0.400B	19
20	0.400B	0.132B	0.305B	1.45	4.13	5.84	2.32	9.26	1.12	1.23	0.750B	0.300B	20
21	0.425B	0.180B	0.290B	1.56	5.18	6.31	1.88	6.84	1.09	1.08	0.700B	0.275B	21
22	0.460B	0.215B	0.285B	1.69	6.28	5.55	1.34	5.66	1.05	1.05	0.660B	0.275B	22
23	0.480B	0.240B	0.280B	1.68	5.68	4.79	1.13	5.29	0.997	1.06	0.610B	0.280B	23
24	0.500B	0.270B	0.285B	1.59	5.96	4.34	1.11	5.36	0.959	0.961	0.580B	0.300B	24
25	0.505B	0.310B	0.290B	1.48	24.4	4.06	4.94	6.37	0.889	0.944	0.550B	0.330B	25
26	0.500B	0.340B	0.310B	1.62	44.8	3.48	9.13	7.42	0.854	0.975	0.550B	0.340B	26
27	0.490B	0.380B	0.349B	1.64	35.5	3.02	10.1	7.11	0.842	1.01	0.580B	0.350B	27
28	0.420B	0.400B	0.500B	1.59	25.7	2.68	10.2	5.79	0.759	0.982	0.680B	0.350B	28
29	0.300B		0.900B	1.41	26.2	2.36	8.94	4.85	0.751	1.05	0.774B	0.345B	29
30	0.163B		1.40 B	1.30	26.1	2.04	6.36	4.21	0.749	1.11	0.850B	0.330B	30
31	0.100B		1.70 B		24.0		5.49	3.66		0.972		0.300B	31
TOTAL	11.655	4.917	13.601	43.047	309.47	349.35	99.832	155.09	43.940	36.689	24.411	21.512	TOTAL
MEAN	0.376	0.176	0.439	1.43	9.98	11.6	3.22	5.00	1.46	1.18	0.814	0.694	MEAN
MAX	0.505	0.400	1.70	2.00	44.8	44.3	10.2	13.2	3.24	2.09	1.03	1.20	MAX
MIN	0.100	0.040	0.280	0.700	1.48	2.04	0.950	1.68	0.749	0.711	0.550	0.275	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.05
MAXIMUM DAILY, 44.8 ON MAY 26
MINIMUM DAILY, 0.040B ON FEB 16
MAXIMUM INSTANTANEOUS,
55.2 AT 22:40 MST ON JUN 02

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 09 16 N
LONG 114 31 42 W
DRAINAGE AREA, 571 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 010	JUL	8 630
FEB	425	AUG	13 400
MAR	1 180	SEP	3 800
APR	3 720	OCT	3 170
MAY	26 700	NOV	2 110
JUN	30 200	DEC	1 860

TOTAL DISCHARGE, 96 200 dam³

KAKWA RIVER NEAR GRANDE PRAIRIE - STATION NO. 07GB002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	4.09B	7.24B	23.7	368	91.8	29.1	22.2	12.1	---	---	1
2	---	---	4.33B	7.54B	25.7	263	92.0	28.4	20.9	11.9	---	---	2
3	---	---	4.62B	7.92B	26.9	212	141	26.6	19.4	12.0	---	---	3
4	---	---	4.62B	7.42B	31.6	224	184	24.6	17.9	12.4	---	---	4
5	---	---	4.35B	6.67B	42.8	223	132	23.3	16.6	12.5	---	---	5
6	---	---	4.20B	6.46B	72.6	193	135	22.3	15.5	12.3	---	---	6
7	---	---	4.15B	6.19B	89.2	171	149	21.7	14.7	11.7	---	---	7
8	---	---	4.05B	6.22B	72.0	164	119	21.1	14.1	11.6	---	---	8
9	---	---	3.93B	5.90B	62.6	159	111	20.4	13.8	11.7	---	---	9
10	---	---	3.28B	5.55B	60.2	153	101	19.2	13.5	12.6	---	---	10
11	---	---	3.29B	5.65B	58.5	266	92.1	18.4	13.2	14.8	---	---	11
12	---	---	3.60B	7.11B	57.5	859	86.3	18.8	13.1	14.1	---	---	12
13	---	---	3.42B	8.32B	61.3	723 A	85.2	19.2	13.2	13.4	---	---	13
14	---	---	3.75B	9.11B	66.1	429 A	76.3	19.8	13.2	12.7	---	---	14
15	---	---	4.66B	11.0 B	70.2	350 E	65.0	20.8	12.7	12.0B	---	---	15
16	---	---	4.75B	11.9 B	69.2	280 E	56.3	21.7	13.5	11.4B	---	---	16
17	---	---	4.44B	11.8 B	79.3	245 E	50.5	24.2	23.0	10.8B	---	---	17
18	---	---	4.26B	16.1 B	99.2	208 E	46.8	26.3	25.4	11.3B	---	---	18
19	---	---	4.51B	19.1 B	104	182 E	45.7A	22.7	20.4	10.8B	---	---	19
20	---	---	4.57B	16.9 B	117	154 A	44.3E	20.1	18.2	10.7B	---	---	20
21	---	4.07B	4.23B	17.7 B	129	145	42.9E	18.1	16.6	10.8B	---	---	21
22	---	4.36B	3.62B	19.2 B	124	146	41.6E	19.5	15.5	10.5B	---	---	22
23	---	4.40B	3.23B	22.3 B	118	147	40.2E	17.8	14.6	10.6B	---	---	23
24	---	4.47B	2.82B	29.1 B	123	141	38.8A	17.3	14.0	10.1B	---	---	24
25	---	4.09B	2.76B	34.0	148	124	38.4	16.8	13.4	10.4B	---	---	25
26	---	4.00B	2.95B	31.3	207	113	38.0	16.0	13.2	13.0B	---	---	26
27	---	3.85B	3.26B	26.7	210	106	38.7	15.4	13.0	14.3B	---	---	27
28	---	3.95B	4.06B	21.9	207	98.2	36.5	14.6	12.9	13.6B	---	---	28
29	---		4.71B	19.6	215	96.7	33.3	13.7	12.6	13.6B	---	---	29
30	---		5.18B	20.4	246	89.4	31.5	14.2	12.4	12.9B	---	---	30
31	---		6.09B		400		30.5	18.6		12.8B		---	31
TOTAL	---	---	125.80	425.58	3 416.6	7 032.3	2 314.7	629.7	472.7	375.4	---	---	TOTAL
MEAN	---	---	4.06	14.2	110	234	74.7	20.3	15.8	12.1	---	---	MEAN
MAX	---	---	6.09	34.0	400	859	184	28.4	25.4	14.8	---	---	MAX
MIN	---	---	2.78	5.55	23.7	89.4	30.5	13.7	12.4	10.1	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 60.4
MAXIMUM DAILY, 859 ON JUN 12
MINIMUM DAILY, 2.78B ON MAR 25
MAXIMUM INSTANTANEOUS
1 120 AT 05:30 MST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 22 20 N
LONG 118 35 40 W
DRAINAGE AREA, 3 300 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	200 000
FEB	---	AUG	54 400
MAR	10 900	SEP	40 800
APR	36 800	OCT	32 400
MAY	295 000	NOV	---
JUN	608 000	DEC	---

TOTAL DISCHARGE, 1 280 000 dam³

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARKS.

KANANASKIA RIVER BELOW BARRIER DAM - STATION NO. 05BF025

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	12.9	19.1	14.2	15.8	14.8	60.0	32.1	18.0	9.97	12.9	14.4	8.47	1
2	14.1	16.8	14.2	20.1	16.1	53.5	29.5	19.2	10.2	12.8	16.0	6.12	2
3	14.3	14.2	14.3	20.0	14.2	47.0	26.7	19.0	9.97	11.3	9.20	18.5	3
4	15.1	14.3	14.2	19.5	14.2	65.7	27.0	22.1	14.2	8.61	5.78	18.3	4
5	14.0	16.9	14.4	20.0	8.61	61.6	27.5	16.3	8.52	10.1	14.3	19.9	5
6	15.2	17.1	14.7	19.9	9.00	50.9	27.2	12.3	14.2	7.08	11.6	18.7	6
7	14.0	17.3	14.3	15.6	18.1	46.0	24.9	14.1	12.8	11.5	16.4	15.6	7
8	16.9	17.2	15.0	15.6	16.3	42.0	23.3	17.8	11.6	10.6	12.7	6.14	8
9	12.4	15.1	15.6	19.8	16.4	41.0	22.4	16.3	11.5	9.37	12.9	5.58	9
10	15.8	14.5	14.1	19.9	12.5	38.9	20.1	16.2	12.8	10.2	7.25	17.4	10
11	16.2	14.1	14.5	19.9	18.4	38.1	18.4	17.3	11.7	11.9	5.69	16.8	11
12	16.8	15.6	15.2	19.8	12.0	36.6	19.2	9.71	11.5	12.1	11.5	17.7	12
13	16.6	15.6	15.5	14.0	8.38	33.8	19.9	10.8	11.4	12.0	14.3	15.7	13
14	16.6	16.9	15.3	15.5	14.5	34.0	15.1	14.9	11.5	7.14	15.0	17.1	14
15	17.1	15.4	17.2	14.0	11.2	33.2	13.7	14.9	11.4	12.9	17.7	10.9	15
16	15.3	15.6	16.2	17.1	12.5	38.8	20.5	12.1	11.3	14.3	18.4	10.5	16
17	15.4	13.8	14.1	19.1	11.3	36.1	20.6	11.0	11.6	11.2	10.3	20.0	17
18	16.1	13.8	14.3	19.1	10.1	37.2	22.5	11.0	11.4	14.5	9.20	20.0	18
19	16.0	14.0	17.1	19.3	8.75	39.6	22.5	10.9	11.5	12.7	17.0	17.8	19
20	14.4	15.3	15.4	18.3	0.311	42.0	21.6	11.0	11.4	8.78	15.4	17.1	20
21	12.8	14.0	15.5	16.9	9.74	39.4	16.3	9.54	11.6	5.72	13.4	16.8	21
22	16.9	12.5	15.6	14.6	12.7	38.8	13.5	9.88	10.1	14.0	14.6	11.4	22
23	15.5	13.3	19.8	19.0	11.4	40.1	11.4	9.77	10.3	12.8	15.1	9.57	23
24	15.7	14.1	13.8	18.4	11.9	37.7	10.3	10.8	9.88	8.64	12.9	11.2	24
25	14.1	15.5	17.0	18.5	23.9	38.3	17.6	8.16	9.88	10.1	8.61	9.43	25
26	15.7	14.5	17.2	19.3	32.5	40.8	24.9	11.9	9.68	11.3	9.85	9.46	26
27	15.1	14.0	17.5	19.5	37.7	41.3	32.1	11.6	11.3	7.19	17.7	12.7	27
28	15.0	14.4	16.8	17.0	41.6	39.7	32.0	12.7	11.3	7.19	17.0	12.8	28
29	17.5		17.0	13.0	42.7	34.8	31.9	12.7	11.3	9.88	17.7	9.88	29
30	15.7		17.0	19.8	50.0	30.3	31.8	12.7	11.2	10.9	17.4	10.1	30
31	17.0		14.1		54.8		18.9	13.0		13.3		13.1	31
TOTAL	474.4	424.8	481.3	538.1	577.491	1 259.2	704.2	421.16	339.50	333.00	399.68	424.75	TOTAL
MEAN	15.3	15.2	15.5	17.9	18.6	42.0	22.7	13.6	11.3	10.7	13.3	13.7	MEAN
MAX	17.5	19.1	19.8	20.1	54.8	65.7	32.1	22.1	14.2	14.5	18.4	20.0	MAX
MIN	12.8	12.5	13.8	13.0	0.311	30.3	13.5	8.16	8.52	5.72	5.69	5.58	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 17.5
MAXIMUM DAILY, 65.7 ON JUN 04
MINIMUM DAILY, 0.311 ON MAY 20

DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 02 30 N
LONG 115 01 55 W
DRAINAGE AREA, 899 km²

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	41 000	JUL	60 800
FEB	36 700	AUG	36 400
MAR	41 600	SEP	29 300
APR	46 500	OCT	28 800
MAY	49 900	NOV	34 500
JUN	109 000	DEC	36 700

TOTAL DISCHARGE, 551 000 dam³

KANANASKIS RIVER ABOVE POCATERRA CREEK - STATION NO. 05BF003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	6.23	16.0	9.85	0.028	4.98	11.5	0.198	14.2	0.085	9.94	11.4	0.085	1
2	16.2	15.0	9.83	15.5	0.057	0.283	0.198	14.8	0.085	12.9	11.5	0.085	2
3	12.1	4.53	4.53	16.0	4.87	0.311	9.57	14.3	0.085	12.7	0.057	18.8	3
4	14.5	4.79	0.028	15.2	0.028	10.1	9.17	6.23	7.73	5.75	0.057	14.8	4
5	12.9	17.0	14.0	15.6	0.057	8.61	9.26	0.085	8.52	12.0	11.1	15.3	5
6	5.75	16.8	14.8	14.9	0.057	9.32	4.93	0.085	4.30	0.113	11.2	16.9	6
7	5.52	17.3	14.8	4.39	4.19	9.23	0.142	7.76	8.52	0.085	11.2	16.9	7
8	15.7	10.4	14.3	0.028	0.057	13.1	0.142	13.9	0.085	4.96	4.42	0.085	8
9	15.6	15.5	14.0	12.7	3.96	7.79	5.69	10.8	0.085	8.64	14.3	0.085	9
10	15.6	5.04	6.60	12.7	0.057	0.255	0.113	7.70	8.38	8.41	0.085	17.0	10
11	12.6	4.98	0.028	12.6	4.47	9.23	0.113	0.085	9.23	9.23	0.085	17.0	11
12	11.4	15.7	14.7	12.7	0.057	3.94	0.113	0.085	9.32	9.26	11.4	17.0	12
13	7.22	15.7	14.8	0.028	0.057	9.37	12.7	5.64	10.0	0.085	11.2	14.2	13
14	5.80	16.0	14.8	4.25	5.01	9.66	4.70	7.79	9.97	0.085	11.3	17.0	14
15	15.5	14.1	14.8	0.028	4.90	9.66	0.113	7.08	0.085	10.9	11.3	0.085	15
16	15.7	14.1	14.7	6.31	0.028	0.198	13.9	6.29	0.085	11.2	11.2	0.085	16
17	14.3	7.76	5.35	15.7	0.028	0.198	14.3	5.86	8.52	10.9	0.085	17.4	17
18	12.9	4.73	0.028	15.3	4.08	9.20	14.2	0.085	9.29	10.5	0.085	17.0	18
19	15.8	7.84	15.6	15.5	0.028	9.26	14.1	0.085	8.58	9.32	12.5	16.7	19
20	5.75	15.6	15.6	12.6	0.028	9.32	13.5	5.78	8.35	0.085	13.3	16.7	20
21	0.057	14.3	16.0	0.057	0.028	9.32	0.085	5.69	7.11	0.085	14.1	16.0	21
22	15.5	14.2	15.5	0.057	0.028	9.20	0.085	0.085	0.085	10.4	6.60	8.50	22
23	15.8	11.2	15.6	12.5	0.538	0.198	12.9	0.085	0.085	10.4	14.3	0.085	23
24	15.7	4.53	5.75	12.6	2.66	0.198	5.69	0.085	8.58	8.92	0.085	14.0	24
25	14.1	0.057	0.028	12.5	1.30	9.15	14.1	0.085	0.085	8.89	0.085	0.085	25
26	14.2	15.7	15.5	9.77	0.227	9.34	7.42	0.085	9.88	7.11	12.8	9.83	26
27	4.70	15.5	15.5	11.4	0.198	9.37	9.88	7.14	8.41	0.085	15.0	12.7	27
28	4.79	12.8	12.9	0.028	0.198	9.40	8.98	5.69	8.41	0.085	14.9	12.6	28
29	16.3		12.7	0.028	0.227	9.37	5.56	5.75	0.085	7.16	14.8	7.70	29
30	15.9		15.7	12.3	5.61	0.198	5.66	5.72	0.085	7.11	15.0	7.65	30
31	16.0		4.19		10.5		14.7	7.14		9.09		14.2	31
TOTAL	367.117	327.157	345.512	264.602	58.513	206.279	212.232	166.195	154.120	216.398	265.444	336.560	TOTAL
MEAN	11.8	11.7	11.1	8.82	1.89	6.88	6.85	5.36	5.14	6.98	8.85	10.9	MEAN
MAX	16.3	17.3	16.0	16.0	10.5	13.1	14.7	14.8	10.0	12.9	15.0	18.8	MAX
MIN	0.057	0.057	0.028	0.028	0.028	0.198	0.085	0.085	0.085	0.085	0.057	0.085	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 8.00
MAXIMUM DAILY, 18.8 ON DEC 03
MINIMUM DAILY, 0.028 ON MAR 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 42 00 N
LONG 115 07 05 W

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	31 700	JUL	18 300
FEB	28 300	AUG	14 400
MAR	29 900	SEP	13 300
APR	22 900	OCT	18 700
MAY	5 060	NOV	22 900
JUN	17 800	DEC	29 100

DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

REGULATED SINCE 1932

TOTAL DISCHARGE, 252 000 dam³

KEG RIVER AT HIGHWAY NO. 35 - STATION NO. 07HF002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.006B	0.172B	10.0	4.64A	1.34	0.189	0.120	0.064	---	---	1
2	---	---	0.006B	0.260B	12.1	10.2	1.28	0.212	0.110	0.116	---	---	2
3	---	---	0.006B	0.662B	11.4	25.9	1.20	0.189	0.089	0.160	---	---	3
4	---	---	0.007B	1.79 B	18.8	15.9	1.27	0.233	0.073	0.202	---	---	4
5	---	---	0.007B	1.86 B	20.8	10.9	1.12	0.261	0.066	0.185	---	---	5
6	---	---	0.008B	2.01 B	24.8	8.10	0.969	0.211	0.062	0.160	---	---	6
7	---	---	0.008B	1.97 B	27.7	6.82	0.842	0.181	0.048	0.168	---	---	7
8	---	---	0.008B	1.60 B	27.1	5.73	0.721	0.127	0.049	0.155	---	---	8
9	---	---	0.007B	1.35 B	21.4	5.26	0.648	0.118	0.042	0.161	---	---	9
10	---	---	0.007B	0.960B	16.7	5.39	0.739	0.103	0.039	0.185	---	---	10
11	---	---	0.008B	0.745B	14.0	6.93	0.615	0.096	0.070	0.155	---	---	11
12	---	---	0.009B	1.25 B	11.6	13.0	0.571	0.091	0.057	0.155	---	---	12
13	---	---	0.010B	2.53 B	9.91	42.7	0.577	0.087	0.048	0.122	---	---	13
14	---	---	0.012B	3.34 B	8.73	56.9	0.475	0.083	0.052	0.187	---	---	14
15	---	---	0.014B	4.55 B	7.71	37.8	0.431	0.085	0.050	0.189	---	---	15
16	---	---	0.016B	6.13 B	6.85	18.0	0.471	0.081	0.044	0.175	---	---	16
17	---	---	0.016B	6.61 B	6.23	12.2	0.407	0.074	0.035	0.174	---	---	17
18	---	---	0.015B	7.15 B	5.85	9.48	0.347	0.072	0.032	0.181	---	---	18
19	---	---	0.015B	6.80 B	5.57	7.42A	0.299	0.068	0.039	0.190	---	---	19
20	---	---	0.014B	9.79	5.39	5.67A	0.290	0.068	0.032	0.178	---	---	20
21	---	---	0.014B	12.8	5.03	4.43A	0.260	0.069	0.031	0.147B	---	---	21
22	---	---	0.015B	17.4	4.70	3.67A	0.240	0.068	0.032	0.102B	---	---	22
23	---	0.005B	0.016B	20.5	4.38	3.10A	0.227	0.075	0.040	0.118B	---	---	23
24	---	0.005B	0.011B	22.1	4.11	2.66A	0.212	0.086	0.036	0.104B	---	---	24
25	---	0.005B	0.009B	20.4	4.12	2.28A	0.209	0.142	0.034	0.117B	---	---	25
26	---	0.005B	0.008B	13.1	5.24	1.94	0.186	0.130	0.034	0.153B	---	---	26
27	---	0.005B	0.015B	8.10	7.40	1.68	0.170	0.099	0.027	0.158B	---	---	27
28	---	0.005B	0.041B	7.84	7.02	1.50	0.189	0.083	0.024	0.159B	---	---	28
29	---		0.062B	7.65	6.08	1.45	0.189	0.087	0.025	0.164B	---	---	29
30	---		0.097B	8.28	5.42	1.42	0.190	0.134	0.035	0.162B	---	---	30
31	---		0.155B		4.54A		0.187	0.130		0.160B		---	31
TOTAL	---	---	0.642	199.707	334.48	339.07	16.951	3.732	1.485	4.826	---	---	TOTAL
MEAN	---	---	0.021	6.66	10.8	11.3	0.547	0.120	0.050	0.156	---	---	MEAN
MAX	---	---	0.155	22.1	27.7	56.9	1.34	0.261	0.120	0.202	---	---	MAX
MIN	---	---	0.006	0.172	4.11	1.42	0.170	0.068	0.024	0.064	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.66
MAXIMUM DAILY, 56.9 ON JUN 14
MINIMUM DAILY, 0.006B ON MAR 01
MAXIMUM INSTANTANEOUS, 57.9 AT 10:30 MST ON JUN 14

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 44 40 N
LONG 117 37 20 W
DRAINAGE AREA, 687 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 460
FEB	---	AUG	322
MAR	55.5	SEP	128
APR	17 300	OCT	417
MAY	28 900	NOV	---
JUN	29 300	DEC	---

TOTAL DISCHARGE, 77 900 dam³

KEHO LAKE NEAR NOBLEFORD - STATION NO. 05AC919

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	963.646	964.068	963.947	964.123	964.237	963.346	---	---	1
2	---	---	---	---	963.666	964.066	963.936	964.109	964.232	963.300	---	---	2
3	---	---	---	---	963.679	964.066	963.929	964.091	964.230	963.269	---	---	3
4	---	---	---	---	963.686	964.099	963.889	964.082	964.223	963.264	---	---	4
5	---	---	---	---	963.698	964.065	963.876	964.073	964.216A	963.225	963.205A	---	5
6	---	---	---	---	963.721	964.062	963.877	964.067	964.200	963.213	---	---	6
7	---	---	---	---	963.711	964.076	963.870	964.051	964.181	963.207	---	---	7
8	---	---	---	---	963.719	964.073	963.874	964.032	964.158	963.199	---	---	8
9	---	---	---	---	963.715A	964.071	963.879	964.019	964.132	963.212	---	---	9
10	---	---	---	---	963.740	964.085	963.885	964.015	964.111	963.191	---	---	10
11	---	---	---	---	---	964.129	963.892	964.028	964.081	963.186	---	---	11
12	---	---	---	963.490A	963.767	964.090	963.888	964.055	964.048	963.211	---	---	12
13	---	---	---	963.487	963.775	964.102	963.903	964.069	964.009	963.188	---	---	13
14	---	---	---	963.482	963.791	964.100	963.910	964.086	963.974	963.181	---	---	14
15	---	---	---	963.480	963.790	964.103	963.912	964.111	963.936	963.184	---	---	15
16	---	---	---	963.480	963.786	964.114	963.919	964.134	963.922	963.210	---	---	16
17	---	---	---	963.476	963.791	964.116	963.924	964.163	963.874	963.221	---	---	17
18	---	---	---	963.480	963.807	964.120	963.937	964.193	963.844	963.234	---	---	18
19	---	---	---	963.475	963.811	964.116	963.972	964.225	963.816	963.219	---	---	19
20	---	---	---	963.478	963.825	964.103	964.013	964.260	963.779	963.219	---	---	20
21	---	---	---	963.479	963.847	964.088	964.058	964.291	963.743	963.230	---	---	21
22	---	---	---	963.484	963.842	964.080A	964.084	964.287	963.700	963.220	---	---	22
23	---	---	---	963.488	963.850	964.078	964.105	964.267	963.661	963.215A	---	---	23
24	---	---	---	963.483	963.883	964.076	964.110	964.254	963.618	963.237	---	---	24
25	---	---	---	963.499	963.948	964.057	964.106	964.253	963.580	963.223	---	---	25
26	---	---	---	963.525	963.974	964.024	964.126	964.261	963.534	963.220	---	---	26
27	---	---	---	963.546	963.991	964.007	964.141	964.268	963.487	963.205	---	---	27
28	---	---	---	963.573	964.012	963.996	964.145	964.268	963.441	963.234	---	---	28
29	---		---	963.611	964.035	963.979	964.140	964.260	963.406	963.206	---	---	29
30	---		---	963.627	964.057	963.962	964.136	964.274	963.364	963.208	---	---	30
31	---		---		964.056		964.134	964.255		963.203		---	31
MEAN	---	---	---	---	963.818	964.072	963.985	964.159	963.891	963.222	---	---	MEAN
MAX	---	---	---	---	964.057	964.129	964.145	964.291	964.237	963.346	---	---	MAX
MIN	---	---	---	---	963.646	963.962	963.870	964.015	963.364	963.181	---	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MAXIMUM DAILY, 964.291 ON AUG 21

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 57 20 N
LONG 112 57 30 W
DATA CONTRIBUTED BY -
ALBERTA DEPARTMENT OF THE ENVIRONMENT

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

REMARKS - DAILY MEAN WATER LEVELS ARE DERIVED FROM DATA STORED IN HANDAR 560 TELEMETRY DEVICE

KENNEDY COULEE NEAR ACADIA VALLEY - STATION NO. 05CK006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0	0	0	0	0	0	0	0	---	---	1
2	---	---	0	0	0	0	0	0	0	0	---	---	2
3	---	---	0	0	0	0	0	0	0	0	---	---	3
4	---	---	0	0	0	0	0	0	0	0	---	---	4
5	---	---	0	0	0	0	0	0	0	0	---	---	5
6	---	---	0	0	0	0	0	0	0	0	---	---	6
7	---	---	0	0	0	0	0	0	0	0	---	---	7
8	---	---	0	0	0	0	0	0	0	0	---	---	8
9	---	---	0	0	0	0	0	0	0	0	---	---	9
10	---	---	0	0	0	0	0	0	0	0	---	---	10
11	---	---	0	0	0	0	0	0	0	0	---	---	11
12	---	---	0	0	0	0	0	0	0	0	---	---	12
13	---	---	0	0	0	0	0	0	0	0	---	---	13
14	---	---	0	0	0	0	0	0	0	0	---	---	14
15	---	---	0	0	0	0	0	0	0	0	---	---	15
16	---	---	0	0	0	0	0	0	0	0	---	---	16
17	---	---	0	0	0	0	0	0	0	0	---	---	17
18	---	---	0	0	0	0	0	0	0	0	---	---	18
19	---	---	0	0	0	0	0	0	0	0	---	---	19
20	---	---	0	0	0	0	0	0	0	0	---	---	20
21	---	---	0	0	0	0	0	0	0	0	---	---	21
22	---	---	0	0	0	0	0	0	0	0	---	---	22
23	---	---	0	0	0	0	0	0	0	0	---	---	23
24	---	---	0	0	0	0	0	0	0	0	---	---	24
25	---	---	0	0	0	0	0	0	0	0	---	---	25
26	---	0	0	0	0	0	0	0	0	0	---	---	26
27	---	0	0	0	0	0	0	0	0	0	---	---	27
28	---	0	0	0	0	0	0	0	0	0	---	---	28
29	---		0	0	0	0	0	0	0	0	---	---	29
30	---		0	0	0	0	0	0	0	0	---	---	30
31	---		0		0		0	0		0	---	---	31
TOTAL	---	---	0	0	0	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0	0	0	0	0	0	0	0	---	---	MEAN
MAX	---	---	0	0	0	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0
MAXIMUM DAILY, 0 ON MAR 01
MINIMUM DAILY, 0 ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - MANUAL
LOCATION - LAT 51 05 45 N
LONG 110 15 31 W
DRAINAGE AREA, 939 km²

REGULATED SINCE 1985

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	0	SEP	0
APR	0	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 0 dam³

KILLARNEY LAKE TRIBUTARY NEAR CHAUVIN - STATION NO. 05GA010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.061B	0.170B	0.001	0.001	0.001	0.001	0.001	0.001	---	---	1
2	---	---	0.028B	0.120B	0.001	0.001	0.001	0.001	0.001	0.001	---	---	2
3	---	---	0.070B	0.110	0.001	0.001	0.001	0.001	0.001	0.001	---	---	3
4	---	---	0.101B	0.081	0.001	0.001	0.001	0.001	0.001	0.001	---	---	4
5	---	---	0.031B	0.075	0.001	0.001	0.001	0.001	0.001	0.001	---	---	5
6	---	---	0.031B	0.093	0.001	0.179	0.001	0.001	0.001	0.001	---	---	6
7	---	---	0.251B	0.130	0.001	0.217	0.001	0.001	0.001	0.001	---	---	7
8	---	---	0.802B	0.110	0.001	0.046	0.001	0.001	0.001	0.001	---	---	8
9	---	---	0.491B	0.105	0.001	0.023	0.001	0.001	0.001	0.001	---	---	9
10	---	---	0.323B	0.109	0.001	0.008	0.001	0.001	0.001	0.001	---	---	10
11	---	---	0.282B	0.069	0.001	0.003	0.001	0.001	0.001	0.001	---	---	11
12	---	---	0.187B	0.039	0.001	0.001	0.001	0.001	0.001	0.001	---	---	12
13	---	---	0.102B	0.016	0.001	0.001	0.001	0.001	0.001	0.001	---	---	13
14	---	---	0.073B	0.007	0.001	0.001	0.001	0.001	0.001	0.001	---	---	14
15	---	---	0.057B	0.004	0.001	0.001	0.001	0.001	0.001	0.001A	---	---	15
16	---	---	0.060B	0.002	0.001	0.001	0.001	0.001	0.001	0.001E	---	---	16
17	---	---	0.157B	0.001	0.001	0.001	0.001	0.001	0.001	0.001A	---	---	17
18	---	---	0.122B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	---	---	18
19	---	---	0.308B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	---	---	19
20	---	0 B	0.419B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	---	---	20
21	---	0 B	0.637B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	---	---	21
22	---	0 B	0.286B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	---	---	22
23	---	0 B	0.191B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	---	---	23
24	---	0 B	0.145B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	---	---	24
25	---	0 B	0.113B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	---	---	25
26	---	0 B	0.094B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	---	---	26
27	---	0.002B	0.091B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	---	---	27
28	---	0.002B	0.088B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	---	---	28
29	---		0.106B	0.001	0.001	0.001	0.001	0.001	0.001	0.001	---	---	29
30	---		0.342B	0.001	0.001	0.001	0.001	0.001	0.001	0.001A	---	---	30
31	---		0.350B		0.001		0.001	0.001	0.001	0.001E	---	---	31
TOTAL	---	---	6.500	1.250	0.031	0.501	0.031	0.031	0.030	0.031	---	---	TOTAL
MEAN	---	---	0.210	0.042	0.001	0.017	0.001	0.001	0.001	0.001	---	---	MEAN
MAX	---	---	0.802	0.170	0.001	0.217	0.001	0.001	0.001	0.001	---	---	MAX
MIN	---	---	0.028	0.001	0.001	0.001	0.001	0.001	0.001	0.001	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.034
MAXIMUM DAILY, 0.802B ON MAR 08
MINIMUM DAILY, 0.001 ON APR 17
MAXIMUM INSTANTANEOUS,
1.34 AT 16:16 MST ON JUN 06

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 33 47 N
LONG 110 08 32 W
DRAINAGE AREA, 1 010 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2.68
FEB	---	AUG	2.68
MAR	562	SEP	2.59
APR	108	OCT	2.68
MAY	2.68	NOV	---
JUN	43.3	DEC	---

TOTAL DISCHARGE, 727 dam³

KLESKUN HILLS MAIN DRAIN NEAR GRANDE PRAIRIE - STATION NO. 07GE002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.109B	0.375	0.008	0.003	0.004	0	0	0	---	---	1
2	---	---	0.142B	0.243	0.006	0.003	0.004	0	0	0	---	---	2
3	---	---	0.142B	0.204	0.005	0.003	0.010	0	0	0	---	---	3
4	---	---	0.196B	0.241	0.005	0.002	0.007	0	0	0	---	---	4
5	---	---	0.513B	0.255	0.004	0.004	0.005	0	0	0	---	---	5
6	---	---	0.489B	0.298	0.004	0.003	0.004	0	0	0	---	---	6
7	---	---	0.472B	0.274	0.004	0.001	0.004	0	0	0	---	---	7
8	---	---	0.078B	0.050	0.004	0	0.004	0	0	0	---	---	8
9	---	---	0.064B	0.015	0.004	0	0.004	0	0	0	---	---	9
10	---	---	0.049B	0.014	0.004	0.001	0.003	0	0	0	---	---	10
11	---	---	0.034B	0.013	0.003	2.65	0.003	0	0	0	---	---	11
12	---	---	0.036B	0.014	0.003	4.72	0.003	0	0	0	---	---	12
13	---	---	0.096B	0.014	0.003	2.04	0.002	0	0	0	---	---	13
14	---	---	0.505B	0.016	0.003	0.841	0.002	0	0	0	---	---	14
15	---	---	0.881B	0.019	0.003	0.668	0.001	0	0	0	---	---	15
16	---	---	0.655B	0.016	0.003	0.425	0.003	0	0	0	---	---	16
17	---	---	0.673B	0.014	0.003	0.237	0.008	0	0	0	---	---	17
18	---	---	1.04 B	0.012	0.003	0.015	0.006	0	0	0	---	---	18
19	---	---	1.04 B	0.012	0.002	0.014	0.004	0	0	0	---	---	19
20	---	0 B	0.553B	0.014	0.002	0.012	0.003	0	0	0	---	---	20
21	---	0 B	0.160B	0.013	0.002	0.011	0.002	0	0	0.001	---	---	21
22	---	0 B	0.019B	0.011	0.002	0.010	0.001	0	0	0	---	---	22
23	---	0.001B	0.004B	0.011	0.001	0.009	0.001	0	0	0	---	---	23
24	---	0.003B	0.004B	0.013	0	0.005	0.001	0	0	0.001	---	---	24
25	---	0.006B	0.008B	0.552	0.004	0.003	0.001	0	0	0.001	---	---	25
26	---	0.009B	0.038B	0.313	0.014	0.003	0	0	0	0.005	---	---	26
27	---	0.012B	0.175B	0.151	0.009	0.003	0	0	0	0.008	---	---	27
28	---	0.020B	0.451B	0.015	0.006	0.002	0	0	0	0.004	---	---	28
29	---		0.846B	0.013	0.004	0.002	0	0	0	0.002A	---	---	29
30	---		0.591B	0.010	0.004	0.004	0	0	0	0.002E	---	---	30
31	---		0.444B		0.004		0	0	0	0.002E	---	---	31
TOTAL	---	---	10.642	3.418	0.126	11.694	0.090	0	0	0.026	---	---	TOTAL
MEAN	---	---	0.343	0.114	0.004	0.390	0.003	0	0	0.001	---	---	MEAN
MAX	---	---	1.04	0.552	0.014	4.72	0.010	0	0	0.008	---	---	MAX
MIN	---	---	0.004	0.010	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.106
MAXIMUM DAILY, 4.72 ON JUN 12
MINIMUM DAILY, 0 ON MAY 24
MAXIMUM INSTANTANEOUS,
0.93 AT 23:00 MST ON JUN 11

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 13 29 N
LONG 118 27 37 W
DRAINAGE AREA, 31.6 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	7.78
FEB	---	AUG	0
MAR	919	SEP	0
APR	295	OCT	2.25
MAY	10.4	NOV	---
JUN	1 010	DEC	---

TOTAL DISCHARGE, 2 240 dam³

KNEEHILLS CREEK NEAR DRUMHELLER - STATION NO. 05CE002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.207B	4.97	0.391	0.677	1.35	0.286	0.048	0.013	---	---	1
2	---	---	0.600B	6.63	0.349	0.863	1.20	0.275	0.047	0.014	---	---	2
3	---	---	1.10 B	6.63	0.348	4.16	1.35	0.240	0.042	0.015	---	---	3
4	---	---	1.20 B	4.12	0.339	7.98	1.18	0.214	0.039	0.017	---	---	4
5	---	---	1.00 B	3.25	0.315	10.2	0.931	0.195	0.038	0.020	---	---	5
6	---	---	0.519B	2.60	0.289	5.93	2.09	0.181	0.035	0.022	---	---	6
7	---	---	0.400B	2.17	0.271	9.01	3.52	0.164	0.034	0.023	---	---	7
8	---	---	0.300B	1.94	0.264	10.3	4.56	0.147	0.033	0.025	---	---	8
9	---	---	0.187B	1.83	0.264	7.62	3.15	0.129	0.030	0.029	---	---	9
10	---	---	0.230B	1.63	0.246	4.94	2.53	0.122	0.028	0.025	---	---	10
11	---	---	0.269B	1.42	0.237	3.72	2.24	0.110	0.027	0.026	---	---	11
12	---	---	0.254B	1.22	0.243	3.30	2.14	0.110	0.025	0.030	---	---	12
13	---	---	0.849B	1.06	0.243	3.75	1.94	0.098	0.025	0.030	---	---	13
14	---	---	1.04 B	0.926	0.235	8.15	1.68	0.090	0.024	0.028	---	---	14
15	---	---	1.39 B	0.822	0.225	15.1	1.44	0.081	0.023	0.029	---	---	15
16	---	---	1.10 B	0.737	0.207	12.7	1.24	0.071	0.021	0.029	---	---	16
17	---	---	1.11 B	0.678	0.197	9.94	1.22	0.086	0.020	0.031	---	---	17
18	---	---	1.14 B	0.641	0.194	7.09	1.06	0.997	0.019	0.030	---	---	18
19	---	---	1.10 B	0.608	0.187	5.16	1.18	0.211	0.019	0.032	---	---	19
20	---	---	1.13 B	0.559	0.199	4.73	0.877	0.155	0.019	0.032	---	---	20
21	---	0 B	0.881B	0.503	0.898	3.91	0.735	0.129	0.017	0.032	---	---	21
22	---	0.008B	0.941B	0.442	0.472	3.17	0.655	0.161	0.017	0.033	---	---	22
23	---	0.037B	2.28 B	0.397	0.349	2.81	0.583	1.27	0.017	0.033	---	---	23
24	---	0.040B	2.31 B	0.360	0.322	2.60	0.562	0.334	0.016	0.033	---	---	24
25	---	0.409B	1.71 B	0.342	0.500	2.29	0.491	0.245	0.015	0.034	---	---	25
26	---	0.423B	0.811B	0.329	0.384	2.03	0.452	0.241	0.015	0.036	---	---	26
27	---	0.231B	0.972B	0.324	0.352	1.89	0.414	0.192	0.015	0.037	---	---	27
28	---	0.162B	1.24 B	0.346	0.340	1.72	0.408	0.092	0.016	0.036	---	---	28
29	---		1.41	0.389	0.330	1.49	0.389	0.063	0.015	0.037	---	---	29
30	---		1.28	0.408	0.503	1.36	0.342	0.069	0.015	0.037A	---	---	30
31	---		2.07		0.627		0.310	0.054		0.037E		---	31
TOTAL	---	---	33.060	50.289	10.320	155.790	44.209	6.792	0.754	0.885	---	---	TOTAL
MEAN	---	---	1.07	1.68	0.333	5.19	1.43	0.219	0.025	0.029	---	---	MEAN
MAX	---	---	2.31	6.63	0.898	15.1	3.52	1.27	0.048	0.037	---	---	MAX
MIN	---	---	0.187	0.324	0.187	0.677	0.310	0.054	0.015	0.013	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.23
MAXIMUM DAILY, 15.1 ON JUN 15
MINIMUM DAILY, 0.013 ON OCT 01
MAXIMUM INSTANTANEOUS,
15.6 AT 09:13 MST ON JUN 15

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 28 40 N
LONG 112 51 30 W
DRAINAGE AREA, 2 430 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 820
FEB	---	AUG	587
MAR	2 860	SEP	65.1
APR	4 340	OCT	76.5
MAY	892	NOV	---
JUN	13 500	DEC	---

TOTAL DISCHARGE, 26 100 dam³

KRAWCHUK DRAINAGE NEAR MCLENNAN - STATION NO. 07HA902

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	1.29 B	0.031	0	0	0	0	0	---	---	1
2	---	---	---	1.87 B	0.024	0	0	0	0	0	---	---	2
3	---	---	---	0.728B	0.022	0	0	0	0	0	---	---	3
4	---	---	---	0.470B	0.021	0	0	0	0	0	---	---	4
5	---	---	---	1.76 B	0.018	0	0	0	0	0	---	---	5
6	---	---	0 B	0.214	0.018	0	0	0	0	0	---	---	6
7	---	---	---	0.129	0.016	0	0	0	0	0	---	---	7
8	---	---	---	0.100B	0.017	0	0	0	0	0	---	---	8
9	---	---	---	0.078B	0.017	0	0	0	0	0	---	---	9
10	---	---	---	0.060B	0.016	0	0	0	0	0	---	---	10
11	---	---	---	0.042B	0.015	0.475E	0	0	0	0	---	---	11
12	---	---	---	0.031B	0.015	1.33 E	0	0	0	0	---	---	12
13	---	---	0 B	0.028	0.014	0.558	0	0	0	0	---	---	13
14	---	---	---	0.031	0.014	0.181	0	0	0	0	---	---	14
15	---	---	---	0.036	0.013	0.092	0	0	0	0	---	---	15
16	---	---	---	0.035	0.013	0.049	0	0	0	0	---	---	16
17	---	---	---	0.035	0.013	0.029	0	0	0	OB	---	---	17
18	---	---	---	0.037	0.012	0.019	0	0	0	OB	---	---	18
19	---	---	---	0.041	0.012	0.015	0	0	0	OB	---	---	19
20	---	---	---	0.043	0.011	0.012	0	0	0	OB	---	---	20
21	---	---	---	0.037	0.011	0.009	0	0	0	OB	---	---	21
22	---	---	---	0.033	0.011	0	0	0	0	OB	---	---	22
23	---	---	---	0.030	0.011	0	0	0	0	OB	---	---	23
24	---	---	---	0.029	0.010	0	0	0	0	0	---	---	24
25	---	---	---	0.038	0.010	0	0	0	0	0	---	---	25
26	---	---	---	0.044	0.009	0	0	0	0	0	---	---	26
27	---	---	---	0.050	0.004	0	0	0	0	0	---	---	27
28	---	---	---	0.039	0.001	0	0	0	0	0	---	---	28
29	---	---	0.685B	0.036	0	0	0	0	0	OB	---	---	29
30	---		1.19 B	0.037	0	0	0	0	0	OB	---	---	30
31	---		1.32 B		0		0	0		OB		---	31
TOTAL	---	---	---	7.231	0.402	2.769	0	0	0	0	---	---	TOTAL
MEAN	---	---	---	0.241	0.013	0.092	0	0	0	0	---	---	MEAN
MAX	---	---	---	1.76	0.031	1.33	0	0	0	0	---	---	MAX
MIN	---	---	---	0.028	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS APR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.049
MAXIMUM DAILY, 1.76B ON APR 05
MINIMUM DAILY, 0 ON MAY 29
MAXIMUM INSTANTANEOUS,
3.10 AT 03:15 MST ON APR 05

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 57 00 N
LONG 117 02 00 W
DRAINAGE AREA, 12.9 km²
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	---	SEP	0
APR	625	OCT	0
MAY	34.7	NOV	---
JUN	239	DEC	---

TOTAL DISCHARGE, 899 dam³

KYISKAP CREEK NEAR GRANUM - STATION NO. 05AB038

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0	0	0	0.033	0	0.003	0	0	0	---	1
2	---	---	0	0	0	0.024	0	0.001	0	0	0	---	2
3	---	---	0	0	0	0.022	0	0	0	0	0	---	3
4	---	---	0	0	0	0.028	0	0	0	0	0	---	4
5	---	---	0	0	0	0.024	0	0	0	0	0	---	5
6	---	---	0	0	0	0.016	0	0	0	0	0	---	6
7	---	---	0	0	0	0.010	0	0	0	0	0	---	7
8	---	---	0	0	0	0.007	0	0	0	0	0A	---	8
9	---	---	0	0	0	0.005	0	0	0	0	---	---	9
10	---	---	0	0E	0	0.004	0	0	0	0	---	---	10
11	---	---	0	0E	0	0.003	0	0	0	0	---	---	11
12	---	---	0	0E	0	0.003	0	0	0	0	---	---	12
13	---	---	0	0E	0	0.004	0	0	0	0	---	---	13
14	---	---	0	0E	0	0.005	0	0	0	0	---	---	14
15	---	---	0	0E	0	0.005	0	0	0	0	---	---	15
16	---	---	0	0E	0	0.004	0	0	0	0	---	---	16
17	---	---	0	0E	0	0.003	0	0	0	0	---	---	17
18	---	---	0	0E	0	0.002	0	0	0	0	---	---	18
19	---	---	0	0E	0.001	0.001	0	0	0	0	---	---	19
20	---	---	0	0E	0.004	0.001	0	0	0	0	---	---	20
21	---	---	0	0E	0.003	0	0	0	0	0	---	---	21
22	---	---	0	0E	0.002	0	0	0	0	0	---	---	22
23	---	---	0	0A	0.001	0	0	0	0	0	---	---	23
24	---	---	0	0	0.005	0	0	0	0	0	---	---	24
25	---	---	0	0	0.836	0	0	0	0	0	---	---	25
26	---	0A	0	0	0.555	0	0	0	0	0	---	---	26
27	---	0	0	0	0.146	0	0.007	0	0	0	---	---	27
28	---	0	0	0	0.113	0	0.008	0	0	0	---	---	28
29	---		0	0	0.161	0	0.001	0	0	0	---	---	29
30	---		0	0	0.204	0	0.073	0	0	0	---	---	30
31	---		0		0.082		0.577	0		0		---	31
TOTAL	---	---	0	0	2.113	0.204	0.666	0.004	0	0	---	---	TOTAL
MEAN	---	---	0	0	0.068	0.007	0.022	0	0	0	---	---	MEAN
MAX	---	---	0	0	0.836	0.033	0.577	0.003	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.012
MAXIMUM DAILY, 0.836 ON MAY 25
MINIMUM DAILY, 0 ON MAR 01
MAXIMUM INSTANTANEOUS,
1.22 AT 11:50 MST ON MAY 25

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 48 55 N
LONG 113 35 25 W
DRAINAGE AREA, 191 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	57.5
FEB	---	AUG	0.346
MAR	0	SEP	0
APR	0	OCT	0
MAY	183	NOV	---
JUN	17.6	DEC	---

TOTAL DISCHARGE, 258 dam³

LA BICHE RIVER AT HIGHWAY NO. 63 - STATION NO. 07CA011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.65B	1.70B	1.70B	9.02B	10.4	7.06	2.31	2.50	2.11	2.35	2.55B	1.84B	1
2	1.65B	1.88B	1.66B	8.86B	10.5	6.20	2.29	2.44	2.14	2.39	2.50B	1.75B	2
3	1.62B	1.98B	1.66B	7.07B	10.7	6.05	2.34	2.31	2.25	2.45	2.50B	1.75B	3
4	1.69B	1.99B	1.70B	6.47B	10.6	6.01	2.33	2.26	2.11	2.16	2.47B	1.79B	4
5	1.61B	2.04B	1.75B	6.37B	10.6	5.24	2.13	2.41	2.02	2.18	2.40B	1.71B	5
6	1.67B	2.01B	1.75B	7.71B	10.9	4.78	2.62A	2.54	2.11	2.26	2.50B	1.68B	6
7	1.63B	2.00B	1.74B	9.14B	11.5	4.84	4.36	2.56	2.21	2.29	2.60B	1.74B	7
8	1.65B	1.95B	1.83B	11.1 B	11.3	4.72	4.76	2.57	2.36	2.43	2.50B	1.66B	8
9	1.64B	1.92B	1.77B	12.4 B	11.4	4.41	4.19	2.57	2.48	2.57	2.40B	1.61B	9
10	1.62B	1.87B	1.84B	14.0 B	12.2	4.22	3.84	2.23	2.52	2.57	2.35B	1.65B	10
11	1.57B	1.80B	1.79B	15.7 B	12.3	4.43	3.50	2.39	2.51	2.13	2.30B	1.67B	11
12	1.51B	1.75B	1.72B	17.4 B	12.7	4.50	3.30	2.49	2.47	2.11	2.40B	1.72B	12
13	1.55B	1.70B	1.62B	16.1 B	12.4	3.74	3.17	2.44	2.61	2.01	2.45B	1.79B	13
14	1.56B	1.65B	1.69B	17.6	12.3	3.38	2.97	2.42	2.75	2.61	2.50B	1.92B	14
15	1.62B	1.58B	1.84B	14.9	12.3	3.56	2.67	2.39	2.73	2.45	2.48B	1.88B	15
16	1.68B	1.55B	1.87B	10.8	12.0	3.67	2.37	2.77	2.83	2.44	2.45B	1.83B	16
17	1.63B	1.68B	1.89B	9.45	11.9	3.75	2.52	3.19	3.24	2.62	2.40B	1.91B	17
18	1.62B	1.72B	2.07B	8.86	11.9	3.55	2.62	3.14	2.97	2.81	2.32B	2.93B	18
19	1.65B	1.72B	2.21B	8.64	11.8	3.33	2.44	3.30	2.74	2.85	2.25B	3.00B	19
20	1.74B	1.80B	2.16B	8.80	12.1	3.09	2.30	3.21	2.70	2.45	2.20B	1.85B	20
21	1.83B	1.88B	2.06B	8.61	11.8	2.93	2.19	2.94	2.43	2.35	2.15B	1.80B	21
22	1.86B	1.85B	2.12B	8.67	11.6	2.71	2.11	2.88	2.42	2.59	2.08B	1.95B	22
23	1.87B	1.82B	2.31B	8.63	11.5	2.67	2.18	2.84	2.60	2.33	2.05B	1.84B	23
24	1.80B	1.80B	2.43B	9.77	11.4	2.59	2.19	2.40	2.70	2.38	2.06B	1.94B	24
25	1.82B	1.80B	2.58B	10.1	11.1	2.36	2.16	1.89	2.46	2.82	2.08B	1.86B	25
26	1.84B	1.80B	2.71B	10.2	10.7	2.04	2.26	1.87	2.22	2.64	2.08B	1.83B	26
27	1.74B	1.80B	2.63B	11.2	10.1	2.25	2.37	1.89	2.11	2.43B	2.11B	1.82B	27
28	1.78B	1.69B	2.91B	11.5	9.54	2.13	2.45	1.92	2.16	2.88B	1.97B	1.81B	28
29	1.76B		4.10B	10.7	9.22	2.13	2.27	1.94	2.46	2.51B	2.00B	1.80B	29
30	1.81B		6.59B	10.3	8.71	2.22	2.16	1.72	2.88	2.48B	1.87B	1.78B	30
31	1.78B		8.23B		8.12		2.32	2.03		2.68B		1.75B	31
TOTAL	52.46	50.53	75.35	322.07	347.39	114.58	83.85	75.85	74.32	77.10	68.97	55.86	TOTAL
MEAN	1.69	1.80	2.43	10.7	11.2	3.82	2.70	2.45	2.48	2.49	2.30	1.80	MEAN
MAX	1.87	2.04	8.23	18.1	12.7	7.06	4.76	3.30	3.24	2.88	2.60	2.00	MAX
MIN	1.51	1.55	1.66	6.37	8.12	2.04	2.13	1.72	2.02	2.13	1.87	1.61	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.83
MAXIMUM DAILY, 18.1B ON APR 13
MINIMUM DAILY, 1.51B ON JAN 12
MAXIMUM INSTANTANEOUS,
18.4B AT 00:21 MST ON APR 13

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 56 10 N
LONG 112 30 10 W
DRAINAGE AREA, 4 860 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	4 530	JUL	7 240
FEB	4 370	AUG	6 550
MAR	6 510	SEP	6 420
APR	27 800	OCT	6 660
MAY	30 000	NOV	5 960
JUN	9 900	DEC	4 830

TOTAL DISCHARGE, 121 000 dam³

LAC LA BICHE AT LAC LA BICHE - STATION NO. 07CA004

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	543.129	543.160	543.166	543.181	543.271	543.420	543.476	543.461	543.410A	543.329	543.208	543.193	1
2	543.128	543.161	543.166	543.184	543.272	543.419	543.473	543.464	543.408	543.339	543.202	543.194	2
3	543.130	543.158	543.165	543.188	543.274A	543.414	543.505	543.451	543.403	543.337	543.186	543.192	3
4	543.131	543.159	543.164	543.194	---	543.419	543.500	543.447	543.394	543.331	543.195	543.191	4
5	543.131	543.156	543.166	543.187	---	543.426	543.495	543.439	543.395	543.327	543.195	543.189	5
6	543.129	543.155	543.167	543.182	---	543.427	543.500	543.435	543.391	543.323	543.187	543.183	6
7	543.132	543.152	543.166	543.185	---	543.429	543.506	543.433	543.389	543.316	543.182	543.183	7
8	543.133	543.156	543.168	543.196	---	543.434	543.501	543.426	543.394	543.305	543.204	543.183	8
9	543.133	543.156	543.171	543.194	---	543.431	543.504	543.420	543.395	543.312	543.213	543.184	9
10	543.131	543.156	543.174	543.188	---	543.436	543.502	543.419	543.392	543.316	543.189	543.186	10
11	543.133	543.162	543.179	543.191	---	543.448	543.492	543.415	543.386	543.297	543.186	543.188	11
12	543.139	543.167	543.174	543.190	---	543.467	543.491	543.409	543.391	543.293	543.188	543.188	12
13	543.138	543.165	543.173	543.193	---	543.467	543.507	543.409	543.392	543.294	543.189	543.188	13
14	543.138	543.168	543.172	543.193	---	543.455	543.499	543.404	543.389	543.295	543.187	543.189	14
15	543.136	543.170	543.177	543.199	---	543.451	543.490	543.399	543.378	543.292	543.186	543.195	15
16	543.139	543.168	543.179	543.196	---	543.459	543.488	543.399	543.378	543.281	543.183	543.192	16
17	543.142	543.168	543.180	543.191	---	543.468	543.490	543.394	543.392	543.276	543.183	543.196	17
18	543.143	543.164	543.179	543.190	---	543.471	543.480	543.390	543.380	543.270	543.185	543.201	18
19	543.141	543.164	543.181	543.189	---	543.474	543.478	543.391	543.380	543.276	543.189	543.210	19
20	543.139	543.163	543.186	543.191	---	543.476	543.474	543.385	543.375	543.266	543.192	543.209	20
21	543.140	543.165	543.191	543.197	---	543.474	543.472	543.380	543.372	543.259	543.196	543.207	21
22	543.142	543.165	543.187	543.202	---	543.470	543.472	543.391	543.363	543.258	543.197	543.210	22
23	543.145	543.169	543.185	543.209	---	543.471	543.474	543.393	543.363	543.249	543.199	543.213	23
24	543.145	543.172	543.184	543.237	---	543.479	543.473	543.373	543.359	543.242	543.201	543.213	24
25	543.151	543.171	543.182	543.243	---	543.480	543.464	543.373	543.358	543.244	543.200	543.216	25
26	543.151	543.173	543.182	543.252	---	543.483	543.465	543.367	543.354	543.241	543.199	543.215	26
27	543.154	543.171	543.181	543.257	---	543.489	543.480	543.365	543.349	543.226	543.197	543.223	27
28	543.159	543.167	543.177	543.262	---	543.480	543.476	543.360	543.329	543.233	543.193	543.221	28
29	543.161		543.175	543.268	543.040A	543.477	543.466	543.353	543.338	543.232	543.193	543.216	29
30	543.158		543.179	543.268	543.407	543.466	543.468	543.363	543.337	543.225	543.194	543.216	30
31	543.157		543.178		543.408		543.469	543.404E		543.225		543.212	31
MEAN	543.141	543.164	543.176	543.207	---	543.455	543.485	543.404	543.378	543.281	543.193	543.200	MEAN
MAX	543.161	543.173	543.191	543.268	---	543.489	543.507	543.462	543.410	543.339	543.213	543.223	MAX
MIN	543.128	543.152	543.164	543.181	---	543.414	543.464	543.353	543.329	543.225	543.182	543.183	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 543.507 ON JUL 13
MINIMUM DAILY, 543.040A ON MAY 29
MAXIMUM INSTANTANEOUS,
543.541 AT 03:05 MST ON JUL 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 46 21 N
LONG 111 59 14 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA,
4 330 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

LAC LA NONNE AT LAC LA NONNE - STATION NO. 07BB007

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	663.696	663.687	663.698	663.693	663.664	---	---	1
2	---	---	---	---	---	663.697	663.692	663.698	663.693	663.659	---	---	2
3	---	---	---	663.561	---	663.692	663.692	663.698	663.694	663.659	---	---	3
4	---	---	---	---	---	663.692	663.697	663.698	663.699	663.659	---	---	4
5	---	---	---	---	---	663.677	663.697	663.673	663.699	663.654	---	---	5
6	---	---	---	---	---	663.687	663.697	663.673	663.699	663.649	---	---	6
7	---	---	---	---	---	663.688	663.697	663.673	663.699	663.649	---	---	7
8	---	---	---	---	663.677	---	663.692	663.673	663.699	663.644	---	---	8
9	---	---	---	---	---	---	663.692	663.673	663.699	663.644	---	---	9
10	---	---	---	---	---	663.688	663.692	663.723	663.699	663.644	---	---	10
11	---	---	---	---	---	663.694	663.692	663.723	663.694	663.639	---	---	11
12	---	---	---	---	---	663.694	663.687	663.723	663.694	663.639	---	---	12
13	---	---	663.526	---	---	663.694	663.687	663.723	663.694	663.634	---	---	13
14	---	---	---	---	---	663.699	663.687	663.723	663.694	663.634	---	---	14
15	---	---	---	---	---	663.704	663.687	663.773	663.694	663.624	---	---	15
16	---	---	---	---	---	663.705	663.692	663.773	663.694	663.624	---	---	16
17	---	---	---	---	---	663.710	663.692	663.773	663.684	663.624	---	---	17
18	---	---	---	---	---	663.705	663.692	663.723	663.684	663.624	---	---	18
19	---	---	---	---	---	663.705	663.692	663.723	663.679	663.619	---	---	19
20	---	---	---	---	663.684	663.706	663.688	663.718	663.674	663.619	---	---	20
21	---	---	---	---	663.684	663.706	663.688	663.713	663.674	663.619	---	---	21
22	---	---	663.536	---	663.689	663.701	663.688	663.713	663.674	663.619	---	---	22
23	---	---	---	---	663.684	663.696	663.688	663.703	663.674	663.619	---	---	23
24	---	---	---	---	663.685	663.696	663.693	663.703	663.674	663.619	---	---	24
25	---	---	---	---	663.695	663.692	663.688	663.698	663.669	663.614	---	---	25
26	---	---	---	663.641	663.695	663.692	663.693	663.698	663.677	663.614	---	---	26
27	---	---	---	---	663.695	663.692	663.693	663.698	663.669	663.614	---	---	27
28	---	---	---	---	663.696	663.687	663.698	663.693	663.664	663.614	---	---	28
29	---		---	---	663.701	663.687	663.698	663.688	663.664	663.609	---	---	29
30	---		---	---	663.701	663.687	663.731	663.688	663.664	663.609	---	---	30
31	---		---		663.696		663.698	663.693		663.604		---	31
MEAN	---	---	---	---	---	---	663.693	663.708	663.685	663.631	---	---	MEAN
MAX	---	---	---	---	---	---	663.731	663.773	663.699	663.664	---	---	MAX
MIN	---	---	---	---	---	---	663.683	663.673	663.664	663.604	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 53 54 41 N
LONG 114 16 43 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA,
298 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

LAC STE. ANNE AT ALBERTA BEACH - STATION NO. 05EA006

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	723.032	---	722.935	722.997	722.879	722.830	---	---	1
2	---	---	---	---	723.012	723.023	---	723.007	---	---	---	---	2
3	---	---	---	---	723.012	723.024	---	722.987	722.889	722.830	---	---	3
4	---	---	---	---	723.012	---	723.035	722.987	---	722.830	---	---	4
5	---	---	---	---	723.012	723.024	723.035	722.977	722.889	---	---	---	5
6	---	---	---	---	---	723.014	723.035	722.967	722.889	722.830	---	---	6
7	---	---	---	---	---	723.024	723.035	722.967	722.889	722.830	---	---	7
8	---	---	---	---	723.016	723.024	723.036	722.957	722.889	722.830	---	---	8
9	---	---	---	722.991	723.012	723.024	723.036	722.957	722.889	722.830	---	---	9
10	---	---	---	---	723.012	723.024	723.036	722.947	722.889	---	---	---	10
11	---	---	---	---	723.012	---	723.036	722.947	722.889	722.830	---	---	11
12	---	---	---	---	723.012	---	723.036	722.938	---	722.830	---	---	12
13	---	---	722.931	---	723.012	---	723.036	722.938	722.889	---	---	---	13
14	---	---	---	---	723.012	723.004	723.036	722.938	722.879	---	---	---	14
15	---	---	---	---	723.012	723.004	723.036	722.948	722.880	722.830	---	---	15
16	---	---	---	---	723.012	722.994	723.046	---	722.880	722.820	---	---	16
17	---	---	---	---	723.013	722.984	---	722.918	---	722.820	---	---	17
18	---	---	---	---	723.013	722.984	---	722.918	722.880	722.810	---	---	18
19	723.000	---	722.935	---	723.013	---	723.046	722.918	---	---	---	---	19
20	---	---	---	---	723.013	722.975	723.036	722.918	722.870	722.810	---	---	20
21	---	---	---	---	723.033	722.975	723.036	722.918	722.870	722.810	---	---	21
22	---	722.959	---	---	723.013	722.965	723.036	---	722.870	722.810	---	---	22
23	---	---	---	723.002	723.013	722.965	723.026	---	722.870	722.810	---	---	23
24	---	---	---	---	723.013	722.955	723.026	722.898	722.875	722.800	---	---	24
25	---	---	---	---	723.013	722.955	723.027	722.898	722.870	722.800	---	---	25
26	---	---	722.946	---	723.023	722.955	723.027	722.898	722.850	722.800	---	---	26
27	---	---	---	---	723.023	722.955	---	---	722.850	---	---	---	27
28	---	---	---	---	723.023	722.955	723.017	722.883	722.850	722.800	---	---	28
29	---		---	---	723.023	722.945	723.017	722.889	---	722.800	---	---	29
30	---		---	723.032	723.023	722.935	723.017	722.879	722.840	722.800	---	---	30
31	---		---		723.023		723.007	722.879		---		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 53 40 35 N
LONG 114 21 27 W

A - MANUAL GAUGE
E - ESTIMATED

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

DRAINAGE AREA, 702 km²

LAFOND CREEK NEAR RED EARTH CREEK - STATION NO. 07JC001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.016B	0.155B	5.78	2.00	1.01	0.001	0	0	---	---	1
2	---	---	0.016B	0.168B	5.74	1.98	1.08	0.001	0	0.002	---	---	2
3	---	---	0.016B	0.200B	5.77	1.75	1.26	0.001	0	0.003	---	---	3
4	---	---	0.016B	0.266B	5.35	1.58	1.49	0.001	0	0.003	---	---	4
5	---	---	0.017B	0.575B	5.44	1.49	1.46	0	0.001	0.003	---	---	5
6	---	---	0.017B	1.08 B	5.91	1.47	1.42	0	0.001	0.003	---	---	6
7	---	---	0.017B	1.09 B	6.62	1.44	1.21	0	0.002	0.003	---	---	7
8	---	---	0.018B	1.19 B	6.88	1.37	1.10	0.001	0.002	0.002	---	---	8
9	---	---	0.018B	1.03 B	7.11	1.31	0.865	0.001	0.001	0.002	---	---	9
10	---	---	0.018B	1.08 B	7.13	1.19	0.635	0.001	0.001	0.002	---	---	10
11	---	---	0.018B	1.18 B	7.13	1.50	0.465	0.002	0.001	0.001	---	---	11
12	---	---	0.018B	1.11 B	7.20	4.58	0.329	0.002	0.001	0.001	---	---	12
13	---	---	0.019B	0.988B	7.42	7.88	0.262	0.001	0.001	0.001	---	---	13
14	---	---	0.019B	0.942B	7.47	10.9	0.191	0	0.001	0.001	---	---	14
15	---	---	0.020B	0.964B	6.92	12.7	0.170	0	0	0.001	---	---	15
16	---	---	0.023B	1.02 B	5.86	13.3	0.116	0	0	0	---	---	16
17	---	---	0.023B	1.17 B	5.00	11.6	0.084	0	0.002	0	---	---	17
18	---	---	0.025B	1.61 B	4.34	9.10	0.084	0.001	0.002	0.001	---	---	18
19	---	---	0.033B	2.06 B	3.71	7.02	0.076	0.001	0.002	0.001	---	---	19
20	---	---	0.034B	2.67 B	3.36	5.46	0.070	0	0.002	0.001	---	---	20
21	---	---	0.051B	3.84 B	3.20	4.22	0.084	0	0.002	0.002	---	---	21
22	---	---	0.040B	6.51 B	3.12	3.29	0.090	0	0.002	0.002	---	---	22
23	---	---	0.053B	8.01 B	3.01	2.60	0.061	0	0.001	0.002	---	---	23
24	---	---	0.045B	9.47 B	2.76	2.04	0.040	0	0.001	0.008	---	---	24
25	---	---	0.041B	10.0 B	2.86	1.68	0.028	0	0	0.012	---	---	25
26	---	---	0.039B	9.16 B	2.71	1.45	0.021	0	0	0.008	---	---	26
27	---	0.018B	0.037B	8.30 B	2.58	1.25	0.017	0	0	0.004	---	---	27
28	---	0.016B	0.042B	7.04	2.44	1.03	0.014	0.001	0	0.003	---	---	28
29	---		0.060B	6.14	2.17	0.812	0.006	0.001	0	0.002	---	---	29
30	---		0.103B	5.82	1.93	0.635	0.002	0.001	0	0 A	---	---	30
31	---		0.157B		1.82		0.001	0.001		0		---	31
TOTAL	---	---	1.077	94.838	148.74	118.627	13.741	0.018	0.026	0.074	---	---	TOTAL
MEAN	---	---	0.035	3.16	4.80	3.95	0.443	0.001	0.001	0.002	---	---	MEAN
MAX	---	---	0.157	10.0	7.47	13.3	1.49	0.002	0.002	0.012	---	---	MAX
MIN	---	---	0.016	0.155	1.82	0.635	0.001	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.54
MAXIMUM DAILY, 13.3 ON JUN 16
MINIMUM DAILY, 0 ON AUG 05
MAXIMUM INSTANTANEOUS, 13.8 AT 09:00 MST ON JUN 16

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 04 40 N
LONG 115 05 30 W
DRAINAGE AREA, 491 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 190
FEB	---	AUG	1.56
MAR	93.1	SEP	2.25
APR	8 190	OCT	6.39
MAY	12 900	NOV	---
JUN	10 200	DEC	---

TOTAL DISCHARGE, 32 600 dam³

LAKE ABRAHAM NEAR NORDEGG - STATION NO. 05DC009

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 307.52	1 304.62	1 302.63	1 298.77	1 294.53	1 289.83	1 299.07	1 308.14	1 314.31	1 314.59	1 313.04	1 311.21	1
2	1 307.52	1 304.59	1 302.52	1 298.65	1 294.36	1 290.38	1 299.31	1 308.43	1 314.37	1 314.61	1 313.01	1 311.16	2
3	1 307.46	1 304.50	1 302.42	1 298.52	1 294.04	1 290.85	1 299.53	1 308.65	1 314.42	1 314.60	1 312.93	1 311.14	3
4	1 307.39	1 304.46	1 302.30	1 298.38	1 293.64	1 291.24	1 299.74	1 308.86	1 314.39	1 314.60	1 312.87	1 311.02	4
5	1 307.29	1 304.39	1 302.21	1 298.23	1 293.32	1 291.48	1 295.92	1 309.10	1 314.39	1 314.61	1 312.85	1 310.97	5
6	1 307.21	1 304.33	1 302.10	1 298.08	1 293.03	1 291.66	1 300.33	1 309.41	1 314.40	1 314.58	1 312.83	1 310.91	6
7	1 307.13	1 304.28	1 301.99	1 297.95	1 292.68	1 291.78	1 300.88	1 309.71	1 314.39	1 314.51	1 312.76	1 310.82	7
8	1 307.05	1 304.22	1 301.89	1 297.82	1 292.46	1 291.87	1 301.30	1 309.98	1 314.45	1 314.48	1 312.70	1 310.72	8
9	1 306.95	1 304.16	1 301.76	1 297.67	1 292.16	1 291.96	1 301.66	1 310.26	1 314.51	1 314.38	1 312.63	1 310.66	9
10	1 306.86	1 304.10	1 301.63	1 297.50	1 291.81	1 292.12	1 302.04	1 310.52	1 314.53	1 314.32	1 312.56	1 310.61	10
11	1 306.77	1 304.04	1 301.53	1 297.34	1 291.44	1 292.35	1 302.39	1 310.79	1 314.57	1 314.26	1 312.51	1 310.52	11
12	1 306.66	1 303.99	1 301.41	1 297.18	1 291.08	1 292.60	1 302.82	1 311.08	1 314.62	1 314.19	1 312.51	1 310.46	12
13	1 306.56	1 303.95	1 301.29	1 297.03	1 290.72	1 292.72	1 303.32	1 311.37	1 314.63	1 314.12	1 312.44	1 310.37	13
14	1 306.48	1 303.88	1 301.15	1 296.87	1 290.36	1 292.75	1 303.77	1 311.71	1 314.61	1 314.03	1 312.41	1 310.29	14
15	1 306.36	1 303.79	1 301.02	1 296.73	1 289.95	1 292.86	1 304.10	1 312.01	1 314.62	1 313.93	1 312.37	1 310.20	15
16	1 306.24	1 303.72	1 300.89	1 296.56	1 289.55	1 293.07	1 304.45	1 312.30	1 314.68	1 313.84	1 312.33	1 310.17	16
17	1 306.15	1 303.68	1 300.77	1 296.40	1 289.15	1 293.40	1 304.75	1 312.58	1 314.74	1 313.78	1 312.25	1 310.08	17
18	1 306.03	1 303.61	1 300.64	1 296.25	1 288.82	1 293.79	1 304.96	1 312.82	1 314.75	1 313.68	1 312.18	1 310.02	18
19	1 305.92	1 303.54	1 300.51	1 296.10	1 288.46	1 294.17	1 305.10	1 313.06	1 314.73	1 313.60	1 312.11	1 309.94	19
20	1 305.81	1 303.43	1 300.37	1 295.97	1 288.15	1 294.49	1 305.23	1 313.24	1 314.73	1 313.51	1 312.04	1 309.87	20
21	1 305.69	1 303.34	1 300.21	1 295.85	1 287.81	1 294.82	1 305.30	1 313.54	1 314.72	1 313.40	1 312.00	1 309.81	21
22	1 305.57	1 303.26	1 300.08	1 295.72	1 287.47	1 295.31	1 305.41	1 313.80	1 314.69	1 313.35	1 311.89	1 309.77	22
23	1 305.47	1 303.17	1 299.95	1 295.59	1 287.16	1 295.86	1 305.54	1 314.00	1 314.68	1 313.33	1 311.86	1 309.72	23
24	1 305.37	1 303.09	1 299.82	1 295.45	1 286.91	1 296.48	1 305.82	1 314.10	1 314.67	1 313.27	1 311.75	1 309.66	24
25	1 305.26	1 303.01	1 299.71	1 295.31	1 286.94	1 297.01	1 306.07	1 314.12	1 314.66	1 313.25	1 311.66	1 309.62	25
26	1 305.17	1 302.92	1 299.56	1 295.17	1 287.12	1 297.49	1 306.33	1 314.15	1 314.69	1 313.21	1 311.61	1 309.57	26
27	1 305.06	1 302.84	1 299.43	1 295.03	1 287.23	1 297.88	1 306.60	1 314.12	1 314.67	1 313.19	1 311.53	1 309.50	27
28	1 304.94	1 302.73	1 299.29	1 294.88	1 287.32	1 298.23	1 306.92	1 314.11	1 314.65	1 313.17	1 311.51	1 309.46	28
29	1 304.82		1 299.15	1 294.74	1 287.59	1 298.50	1 307.22	1 314.08	1 314.61	1 313.16	1 311.38	1 309.44	29
30	1 304.73		1 299.02	1 294.58	1 288.17	1 298.75	1 307.50	1 314.14	1 314.58	1 313.11	1 311.32	1 309.37	30
31	1 304.68		1 298.89		1 288.97		1 307.83	1 314.22		1 313.08		1 309.30	31
MEAN	1 306.20	1 303.77	1 300.84	1 296.68	1 290.08	1 293.86	1 303.72	1 311.88	1 314.58	1 313.86	1 312.26	1 310.21	MEAN
MAX	1 307.52	1 304.62	1 302.63	1 298.77	1 294.53	1 298.75	1 307.83	1 314.22	1 314.75	1 314.61	1 313.04	1 311.21	MAX
MIN	1 304.68	1 302.73	1 298.89	1 294.58	1 286.91	1 289.83	1 299.07	1 308.14	1 314.31	1 313.08	1 311.32	1 309.30	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 1 304.84
MAXIMUM DAILY, 1 314.75 ON SEP 18
MINIMUM DAILY, 1 286.91 ON MAY 24

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 18 28 N
LONG 116 19 42 W
DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1972
DRAINAGE AREA,
3 890 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LAKE ATHABASCA AT BUSTARD ISLAND - STATION NO. 07MD002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	208.847	208.646	208.647	208.771	209.258	209.846	---	---	---	208.790	208.734	1
2	---	208.853	208.679	208.630	208.802	209.170	209.864	---	---	---	208.788	208.710	2
3	---	208.828	208.666	208.626	208.841	209.207	209.873	---	---	---	208.814	208.703	3
4	---	208.808	208.658	208.631	208.884	209.190	209.797	---	---	---	208.799	208.725	4
5	---	208.822	208.655	208.633	208.905	209.190	209.792	---	---	---	208.808	208.727	5
6	---	208.802	208.652	208.609	208.941	209.208	209.785	---	---	---	208.777	208.705	6
7	---	208.818	208.649	208.599	208.942	209.269	209.805	---	---	---	208.747	208.702	7
8	---	208.780	208.648	208.601	208.954	209.257	209.812	---	---	---	208.644	208.713	8
9	208.968A	208.783	208.659	208.608	208.964	209.313	209.842	---	---	---	208.672	208.697	9
10	208.933	208.780	208.692	208.607	208.972	209.316	209.787	---	---	---	208.718	208.704	10
11	208.934	208.770	208.688	208.599	208.987	209.585	209.777	---	---	209.027A	208.742	208.696	11
12	208.950	208.751	208.690	208.607	209.015	209.490	209.793	---	---	208.885	208.705	208.685	12
13	208.945	208.752	208.691	208.616	209.027	209.381	209.690	---	---	208.966	208.728	208.689	13
14	208.933	208.742	208.689	208.609	209.036	209.367	209.720	---	---	209.052	208.747	208.699	14
15	208.907	208.739	208.688	208.609	209.053	209.394	209.780	---	---	209.040	208.731	208.698	15
16	208.906	208.739	208.678	208.609	209.073	209.421	209.809	---	---	209.039	208.736	208.686	16
17	208.904	208.734	208.685	208.631	209.078	209.455	209.798	---	---	209.022	208.765	208.697	17
18	208.919	208.721	208.696	208.621	209.090	209.504	209.832	---	---	208.947	208.751	208.709	18
19	208.916	208.736	208.692	208.625	209.122	209.580	209.812	---	---	209.028	208.749	208.698	19
20	208.903	208.716	208.688	208.636	209.138	209.634	209.794	---	---	209.082	208.726	208.697	20
21	208.883	208.709	208.671	208.632	209.128	209.683	209.785	---	---	208.933	208.762	208.668	21
22	208.895	208.724	208.664	208.640	209.136	209.741	209.791	---	---	208.912	208.777	208.691	22
23	208.870	208.691	208.659	208.633	209.154	209.756	209.803	---	---	209.023	208.769	208.680	23
24	208.878	208.717	208.652	208.664	209.145	209.748	209.784	---	---	209.085	208.757	208.704	24
25	208.871	208.691	208.670	208.678	209.143	209.790	209.789	---	---	209.034	208.753	208.683	25
26	208.855	208.686	208.680	208.679	209.159	209.810	209.784	---	---	209.056	208.739	208.658	26
27	208.863	208.692	208.669	208.693	209.269	209.816	209.768	209.444A	---	208.939	208.735	208.688	27
28	208.847	208.653	208.660	208.702	209.200	209.787	209.771	---	---	208.906	208.724	208.689	28
29	208.845		208.642	208.725	209.172	209.787	209.751	---	---	208.910	208.740	208.664	29
30	208.825		208.641	208.745	209.173	209.838	209.738	---	---	208.755	208.750	208.666	30
31	208.837		208.651		209.311		209.763E	---		208.800		208.689	31
MEAN	---	208.753	208.669	208.638	209.051	209.498	209.791	---	---	---	208.748	208.695	MEAN
MAX	---	208.853	208.696	208.745	209.311	209.838	209.873	---	---	---	208.814	208.734	MAX
MIN	---	208.653	208.641	208.599	208.771	209.170	209.690	---	---	---	208.644	208.658	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 209.873 ON JUL 03

MAXIMUM INSTANTANEOUS,
209.972 AT 23:50 MST ON JUL 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 46 55 N
LONG 110 46 40 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1967
DRAINAGE AREA,
271 000 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

LAKE ATHABASCA AT FORT CHIPEWYAN - STATION NO. 07MD001

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	208.860E	208.809	208.571	208.451	208.708	209.320	209.621	209.451	209.478	209.325	---	---	1
2	208.855E	208.816	208.599	208.440	208.683	209.158	209.616	209.402	209.326	209.591	---	---	2
3	208.853E	208.797	208.598	208.426	208.639	209.210	209.544	209.621	209.321	209.379	---	---	3
4	208.852A	208.764	208.592	208.436	208.603	209.184	209.746	209.572	209.341	209.195	---	---	4
5	208.889	208.765	208.594	208.440	208.632	209.174	209.704	209.592	209.476	209.092	---	208.594A	5
6	208.886	208.733	208.580	208.411	208.671E	209.174	209.744	209.540	209.275	209.026	---	208.653	6
7	208.914	208.739	208.567	208.407	208.710E	209.308	209.767	209.291	209.097	208.959	---	208.687	7
8	208.905	208.705	208.550	208.423	208.749E	209.229	209.772	209.730	209.305	208.836	---	208.663	8
9	208.911	208.707	208.550E	208.440	208.788E	209.299	209.802E	209.731	209.272	208.734	208.764A	208.677	9
10	208.879	208.696	208.551E	208.457	208.827E	209.303	209.747E	209.721	209.429	208.967	---	208.681	10
11	208.879	208.674	208.551E	208.470	208.866E	209.858	209.737E	209.681	209.447	209.081	---	208.642	11
12	208.897	208.662	208.551A	208.468	208.905E	209.667	209.753E	209.655	209.468	209.400	---	208.662	12
13	208.889	208.667	208.573	208.480	208.944E	209.384	209.650E	209.659	209.203	209.021	---	208.670	13
14	208.874	208.667	208.557	208.478	208.985A	209.349	209.680E	209.638	209.281	208.825	---	208.682	14
15	208.848	208.657	208.544	208.475	209.037	209.372	209.740E	209.650	209.250	208.926	---	208.627	15
16	208.856	208.665	208.510	208.475	209.077	209.446	209.769A	209.677	209.242	208.951	---	208.640	16
17	208.848	208.658	208.509	208.485	209.064	209.452	209.770	209.635	209.047	208.987	---	208.676	17
18	208.871	208.660	208.517	208.473	209.064	209.481	209.816	209.485	209.192	209.124	---	208.651	18
19	208.870	208.673	208.494	208.462	209.139	209.542	209.800	209.508	209.475	208.855	---	---	19
20	208.869	208.643	208.485	208.489	209.132	209.618	209.785	209.445	209.228	208.734	---	---	20
21	208.841	208.624	208.473	208.492	209.136	209.668	209.771	209.530	209.200	208.971	---	---	21
22	208.855	208.645	208.458	208.514	209.128	209.713	209.769	209.590	209.034	208.989	---	---	22
23	208.833	208.613	208.468	208.532	209.104	209.772	209.791	209.363	209.202	208.740	---	---	23
24	208.842	208.641	208.454	208.570	209.106	209.703	209.741	209.293	209.041	208.628	---	---	24
25	208.832	208.621	208.457	208.620	209.138	209.724	209.748	209.416	209.018	208.509	---	---	25
26	208.805	208.591	208.477	208.636	209.171	209.804	209.728	209.400	209.103	208.508	---	---	26
27	208.825	208.612	208.475	208.666	209.400	209.818	209.727	209.417	209.188	208.672	---	---	27
28	208.796	208.592	208.475	208.726	209.254	209.740	209.711	209.431	209.050	208.722	---	---	28
29	208.793		208.459	208.769	209.193	209.725	209.711	209.566	208.755	208.816E	---	---	29
30	208.770		208.442	208.729	209.182	209.659	209.658	209.581	209.134	208.663E	---	---	30
31	208.792		208.440		209.430		209.713	209.645		208.708E		---	31
MEAN	208.854	208.682	208.520	208.511	208.982	209.495	209.730	209.546	209.229	208.933	---	---	MEAN
MAX	208.914	208.816	208.599	208.769	209.430	209.858	209.816	209.731	209.478	209.591	---	---	MAX
MIN	208.770	208.591	208.440	208.407	208.603	209.158	209.544	209.291	208.755	208.508	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 209.858 ON JUN 11

MAXIMUM INSTANTANEOUS,
210.100 AT 19:00 MST ON JUN 11

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 42 40 N
LONG 111 08 50 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1967

DRAINAGE AREA,
271 000 km²

LAKE CLAIRE NEAR OUTLET TO PRAIRIE RIVER - STATION NO. 07KF002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	209.125	209.403	209.304	209.596	209.758	209.346	209.098A	---	---	1
2	---	---	---	209.126	209.462	209.359	209.612	209.767	209.361	---	---	---	2
3	---	---	---	209.155	209.526	209.375	209.528	209.547	209.360	---	---	---	3
4	---	---	---	209.185	209.495	209.410	209.607	209.549	209.331	---	---	208.986A	4
5	---	---	---	209.202	209.436	209.382	209.623	209.537	209.329	---	---	208.963	5
6	---	---	209.191A	209.210	209.419	209.413	209.600	209.599	209.299	---	208.990A	208.976	6
7	---	---	209.166	209.215	209.409	209.418	209.604	209.720	209.389	---	---	208.977	7
8	209.167A	---	209.169	209.193	209.413	209.428	209.597	209.503	209.298	---	---	208.982	8
9	209.151	---	209.180	209.187	209.410	209.423	209.611	209.453	209.257	---	---	208.984	9
10	209.145	---	209.202	209.204	209.390	209.413	209.625	209.474	209.226	---	---	208.981	10
11	209.137	---	209.203	209.215	209.396	209.268	209.605	209.506	209.212	---	---	208.976	11
12	209.130	---	209.206	209.189	209.395	209.371	209.575	209.498	209.234	---	---	208.987	12
13	209.115	---	209.215	209.162	209.415	209.515	209.794	209.507	---	---	---	208.982	13
14	209.111	---	209.215	209.135	209.425	209.509	209.884	209.485	---	---	---	208.976	14
15	209.141	---	209.193	209.157	209.412	209.510	209.664	209.457	---	---	---	208.980	15
16	209.144	---	209.172	209.164	209.407	209.502	209.633	209.436	---	---	---	208.976	16
17	209.133	---	209.155	209.190	209.409	209.512	209.635	209.450	---	---	---	208.973	17
18	209.126	---	209.163	209.199	209.410	209.545	209.639	209.424	---	---	---	208.982	18
19	209.126	---	209.166	209.220	209.405	209.541	209.599	209.419	---	---	---	208.973	19
20	209.145	---	209.178	209.232	209.418	209.538	209.613	209.463	---	---	---	---	20
21	209.145	---	209.165	209.190	209.442	209.530	209.620	209.425	---	---	---	---	21
22	209.134	---	209.123	209.164	209.443	209.537	209.614	209.431	---	---	---	---	22
23	209.138	---	209.125	209.158	209.417	209.585	209.581	209.523	---	---	---	---	23
24	209.155	---	209.135	209.136	209.416	209.612	209.586	209.535	---	---	---	---	24
25	209.159	---	209.152	209.134	209.393	209.541	209.573	209.442	---	---	---	---	25
26	---	---	209.143	209.146	209.347	209.567	209.550	209.359	---	---	---	---	26
27	---	---	209.130	209.151	209.311	209.520	209.599	209.363	---	---	---	---	27
28	---	---	209.108	209.189	209.322	209.604	209.644	209.378	---	---	---	---	28
29	---		209.100	209.263	209.358	209.616	209.614	209.352	---	---	---	---	29
30	---		209.114	209.344	209.365	209.591	209.624	209.341	---	---	---	---	30
31	---		209.143		209.267		209.598	209.338		---		---	31
MEAN	---	---	---	209.185	209.404	209.481	209.621	209.485	---	---	---	---	MEAN
MAX	---	---	---	209.344	209.525	209.616	209.884	209.767	---	---	---	---	MAX
MIN	---	---	---	209.125	209.267	209.268	209.528	209.338	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 209.884 ON JUL 14

MAXIMUM INSTANTANEOUS,
210.190 AT 05:30 MST ON JUL 14

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 38 00 N
LONG 111 41 50 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1967

LAKE MCGREGOR AT SOUTH DAM - STATION NO. 05AC022

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	873.154	873.663	872.679	871.871	872.541	872.786	---	---	1
2	---	---	---	---	873.209	873.713	872.640	871.872	872.591	872.805	---	---	2
3	---	---	---	---	873.266	873.653	872.610	871.982	872.619	872.852	---	---	3
4	---	---	---	---	873.327	873.637	872.567	872.015	872.631	872.882	---	---	4
5	---	---	---	---	873.379	873.639	872.512	872.019	872.663	872.912	872.980A	---	5
6	---	---	---	---	873.429	873.625	872.469	872.032	872.680	872.889	---	---	6
7	---	---	---	---	873.530	873.617	872.453	872.049	872.692	872.884	---	---	7
8	---	---	---	---	873.598	873.621	872.425	872.060	872.722	872.886	---	---	8
9	---	---	---	---	873.595	873.620	872.393	872.054	872.729	872.894	---	---	9
10	---	---	---	---	873.600	873.621	872.365	872.053	872.740	872.956	---	---	10
11	---	---	---	---	873.522	873.505	872.331	872.054	872.727	872.957	---	---	11
12	---	---	---	---	873.535	873.530	872.287	872.057	872.754	872.953	---	---	12
13	---	---	---	---	873.513	873.538	872.259	872.053	872.749	872.987	---	---	13
14	---	---	---	---	873.525	873.461	872.234	872.039	872.756	872.994	---	---	14
15	---	---	---	---	873.541	873.384	872.189	872.041	872.758	872.994	---	---	15
16	---	---	---	---	873.524	873.365	872.157	872.052	872.752	873.013	---	---	16
17	---	---	---	873.000A	873.523	873.361	872.115	872.092	872.765	872.979	---	---	17
18	---	---	---	872.956	873.519	873.348	872.080	872.101	872.748	872.977	---	---	18
19	---	---	---	872.917	873.524	873.286	872.056	872.108	872.784	872.999	---	---	19
20	---	---	---	872.878	873.513	873.185	872.015	872.116	872.776	872.986	---	---	20
21	---	---	---	872.859	873.498	873.121	871.976	872.128	872.783	872.964	---	---	21
22	---	---	---	872.837	873.495	873.061	871.939	872.175	872.776	872.994A	---	---	22
23	---	---	---	872.833	873.510	873.019	871.910A	872.262	872.777	872.979	---	---	23
24	---	---	---	872.831	873.575	872.994	871.889	872.271	872.782	872.933	---	---	24
25	---	---	---	872.831	873.615	872.945	871.852	872.308	872.784	872.942	---	---	25
26	---	---	---	872.863	873.674	872.902	871.813	872.340	872.794	872.962	---	---	26
27	---	---	---	872.910	873.704	872.856	871.861	872.371	872.814	872.952	---	---	27
28	---	---	---	872.991	873.688	872.811	871.870	872.402	872.807	872.943	---	---	28
29	---		---	873.066	873.676	872.760	871.871	872.445	872.815	872.950	---	---	29
30	---		---	873.096	873.675	872.713	871.871	872.411A	872.810	872.943	---	---	30
31	---		---		873.681		871.871	872.514		872.967		---	31
MEAN	---	---	---	---	873.520	873.318	872.179	872.140	872.737	872.939	---	---	MEAN
MAX	---	---	---	---	873.704	873.713	872.679	872.514	872.815	873.013	---	---	MAX
MIN	---	---	---	---	873.154	872.713	871.813	871.871	872.541	872.786	---	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MAXIMUM DAILY, 873.713 ON JUN 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 16 43 N
LONG 112 49 35 W
DATA CONTRIBUTED BY -
ALBERTA DEPARTMENT OF THE ENVIRONMENT

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

REMARKS - DAILY MEAN WATER LEVELS ARE DERIVED FROM DATA STORED IN HANDAR 560 TELEMETRY DEVICE

LAKE MINNEWANKA NEAR BANFF - STATION NO. 05BD003

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 473.22	1 471.92	1 470.53	1 468.67	1 468.31	1 469.97	1 472.32	1 474.37	1 475.04	1 474.67	1 473.94	1 473.05	1
2	1 473.17	1 471.87	1 470.47	1 468.64	1 468.28	1 470.27	1 472.38	1 474.42	1 475.06	1 474.63	1 473.90	1 473.03	2
3	1 473.14	1 471.84	1 470.42	1 468.61	1 468.26	1 470.54	1 472.44	1 474.45	1 475.08	1 474.61	1 473.89	1 472.96	3
4	1 473.10	1 471.80	1 470.37	1 468.57	1 468.25	1 470.70	1 472.50	1 474.51	1 475.05	1 474.61	1 473.90	1 472.96	4
5	1 473.06	1 471.75	1 470.31	1 468.54	1 468.27	1 470.78	1 472.56	1 474.55	1 475.05	1 474.60	1 473.87	1 472.91	5
6	1 473.03	1 471.71	1 470.25	1 468.52	1 468.30	1 470.83	1 472.66	1 474.59	1 475.02	1 474.60	1 473.78	1 472.86	6
7	1 473.03	1 471.68	1 470.18	1 468.54	1 468.29	1 470.86	1 472.81	1 474.62	1 475.00	1 474.60	1 473.77	1 472.83	7
8	1 472.98	1 471.62	1 470.11	1 468.54	1 468.28	1 470.88	1 472.93	1 474.65	1 475.00	1 474.59	1 473.73	1 472.84	8
9	1 472.95	1 471.58	1 470.04	1 468.51	1 468.27	1 470.90	1 473.02	1 474.67	1 475.00	1 474.56	1 473.69	1 472.84	9
10	1 472.91	1 471.55	1 470.00	1 468.47	1 468.26	1 470.96	1 473.08	1 474.69	1 474.97	1 474.54	1 473.70	1 472.79	10
11	1 472.87	1 471.52	1 469.94	1 468.44	1 468.26	1 471.03	1 473.16	1 474.73	1 474.95	1 474.49	1 473.69	1 472.74	11
12	1 472.82	1 471.47	1 469.88	1 468.41	1 468.29	1 471.08	1 473.22	1 474.77	1 474.93	1 474.46	1 473.66	1 472.67	12
13	1 472.79	1 471.41	1 469.81	1 468.43	1 468.31	1 471.10	1 473.30	1 474.79	1 474.90	1 474.47	1 473.64	1 472.61	13
14	1 472.76	1 471.35	1 469.74	1 468.43	1 468.30	1 471.10	1 473.36	1 474.81	1 474.88	1 474.47	1 473.59	1 472.56	14
15	1 472.72	1 471.30	1 469.68	1 468.46	1 468.30	1 471.11	1 473.42	1 474.82	1 474.87	1 474.45	1 473.54	1 472.56	15
16	1 472.68	1 471.24	1 469.62	1 468.45	1 468.30	1 471.15	1 473.45	1 474.83	1 474.85	1 474.41	1 473.50	1 472.53	16
17	1 472.62	1 471.19	1 469.56	1 468.42	1 468.29	1 471.21	1 473.48	1 474.85	1 474.85	1 474.37	1 473.48	1 472.49	17
18	1 472.58	1 471.16	1 469.51	1 468.39	1 468.30	1 471.28	1 473.54	1 474.89	1 474.82	1 474.32	1 473.47	1 472.45	18
19	1 472.53	1 471.11	1 469.44	1 468.36	1 468.32	1 471.33	1 473.57	1 474.93	1 474.80	1 474.28	1 473.44	1 472.39	19
20	1 472.48	1 471.05	1 469.37	1 468.35	1 468.35	1 471.38	1 473.63	1 474.94	1 474.77	1 474.26	1 473.41	1 472.35	20
21	1 472.46	1 470.99	1 469.30	1 468.37	1 468.37	1 471.46	1 473.70	1 474.94	1 474.75	1 474.27	1 473.38	1 472.31	21
22	1 472.41	1 470.94	1 469.24	1 468.39	1 468.34	1 471.54	1 473.77	1 474.96	1 474.75	1 474.23	1 473.33	1 472.29	22
23	1 472.35	1 470.87	1 469.17	1 468.35	1 468.34	1 471.66	1 473.82	1 474.97	1 474.76	1 474.17	1 473.34	1 472.27	23
24	1 472.31	1 470.82	1 469.12	1 468.33	1 468.35	1 471.80	1 473.91	1 474.98	1 474.74	1 474.13	1 473.31	1 472.26	24
25	1 472.26	1 470.78	1 469.07	1 468.31	1 468.57	1 471.92	1 473.97	1 475.00	1 474.74	1 474.12	1 473.29	1 472.24	25
26	1 472.20	1 470.72	1 469.01	1 468.32	1 468.84	1 472.01	1 474.01	1 475.02	1 474.74	1 474.09	1 473.24	1 472.22	26
27	1 472.17	1 470.65	1 468.94	1 468.30	1 469.04	1 472.09	1 474.05	1 475.02	1 474.72	1 474.05	1 473.19	1 472.18	27
28	1 472.15	1 470.59	1 468.87	1 468.32	1 469.14	1 472.15	1 474.13	1 475.02	1 474.70	1 474.03	1 473.13	1 472.16	28
29	1 472.09		1 468.81	1 468.33	1 469.29	1 472.20	1 474.22	1 475.04	1 474.70	1 474.00	1 473.12	1 472.14	29
30	1 472.03		1 468.75	1 468.30	1 469.53	1 472.24	1 474.26	1 475.02	1 474.70	1 473.98	1 473.07	1 472.11	30
31	1 471.98		1 468.70		1 469.68		1 474.32	1 475.02		1 473.99		1 472.09	31
MEAN	1 472.64	1 471.30	1 469.62	1 468.44	1 468.49	1 471.25	1 473.39	1 474.80	1 474.87	1 474.36	1 473.53	1 472.54	MEAN
MAX	1 473.22	1 471.92	1 470.53	1 468.67	1 469.68	1 472.24	1 474.32	1 475.04	1 475.08	1 474.67	1 473.94	1 473.05	MAX
MIN	1 471.98	1 470.59	1 468.70	1 468.30	1 468.25	1 469.97	1 472.32	1 474.37	1 474.70	1 473.98	1 473.07	1 472.09	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MEAN, 1 472.11
MAXIMUM DAILY, 1 475.08 ON SEP 03
MINIMUM DAILY, 1 468.25 ON MAY 04

TYPE OF GAUGE - MANUAL
LOCATION - LAT 51 14 10 N
LONG 115 29 10 W
DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA, 647 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LAKE SHERBURNE - STATION NO. 05AE036

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 451.890	1 452.905	1 453.579	1 453.838	1 454.746	1 456.557	1 459.358	1 459.224	1 455.127	1 447.416	1 448.983	1 452.957	1
2	1 451.915	1 452.942	1 453.591	1 453.896	1 454.576	1 456.743	1 459.440	1 459.163	1 454.932	1 447.041	1 449.202	1 453.009	2
3	1 451.933	1 452.976	1 453.613	1 453.960	[illegible]	1 456.904	1 459.440	1 459.120	1 454.731	1 446.694	1 449.397	1 453.055	3
4	1 451.957	1 452.985	1 453.622	1 454.021	1 454.268	1 457.057	1 459.385	1 459.065	1 454.521	1 446.538	1 449.482	1 453.116	4
5	1 451.991	1 453.018	1 453.640	1 454.085	1 454.155	1 457.182	1 459.321	1 458.980	1 454.311	1 446.809	1 449.595	1 453.164	5
6	1 452.012	1 453.036	1 453.655	1 454.122	1 454.137	1 457.304	1 459.282	1 458.883	1 454.100	1 446.916	1 449.690	1 453.210	6
7	1 452.061	1 453.049	1 453.677	1 454.149	1 454.170	1 457.462	1 459.254	1 458.770	1 453.875	1 446.825	1 449.781	1 453.241	7
8	1 452.098	1 453.073	1 453.683	1 454.170	1 454.173	1 457.630	1 459.267	1 458.672	1 453.649	1 446.675	1 449.867	1 453.302	8
9	1 452.159	1 453.104	1 453.704	1 454.192	1 454.146	1 457.804E1	1 459.331	1 458.562	1 453.427	1 446.425	1 450.019	1 453.353	9
10	1 452.214	1 453.140	1 453.722	1 454.222	1 454.140	1 458.072E1	1 459.416	1 458.459	1 453.201	1 446.483	1 450.333	1 453.402	10
11	1 452.250	1 453.168	1 453.741	1 454.253	1 454.167	1 458.337E1	1 459.465	1 458.352	1 452.969	1 446.684	1 450.714	1 453.460	11
12	1 452.308	1 453.186	1 453.759	1 454.271	1 454.176	1 458.407	1 459.453	1 458.239	1 452.747	1 446.840	1 451.013	1 453.201	12
13	1 452.348	1 453.195	1 453.768	1 454.292	1 454.198	1 458.465	1 459.392	1 458.124	1 452.527	1 446.977	1 451.223	1 453.533	13
14	1 452.387	1 453.213	1 453.759	1 454.329	1 454.231	1 458.520	1 459.358	1 458.011	1 452.308	1 447.093	1 451.406	1 453.570	14
15	1 452.412	1 453.235	1 453.756	1 454.362	1 454.292	1 458.559	1 459.297	1 457.880	1 452.055	1 447.196	1 451.549	1 453.613	15
16	1 452.433	1 453.253	1 453.750	1 454.402	1 454.399	1 458.602	1 459.264	1 457.740	1 451.775	1 447.306	1 451.650	1 453.637	16
17	1 452.463	1 453.308	1 453.744	1 454.457	1 454.484	1 458.663	1 459.270	1 457.581	1 451.506	1 447.413	1 451.756	1 453.680	17
18	1 452.488	1 453.347	1 453.747	1 454.530	1 454.588	1 458.776	1 459.297	1 457.435	1 451.232	1 447.495	1 451.854	1 453.677	18
19	1 452.521	1 453.378	1 453.750	1 454.567	1 454.680	1 458.876	1 459.321	1 457.291	1 450.955	1 447.577	1 451.900	1 453.689	19
20	1 452.546	1 453.393	1 453.750	1 454.582	1 454.823	1 458.965	1 459.340	1 457.170	1 450.690	1 447.654	1 451.988	1 453.716	20
21	1 452.573	1 453.424	1 453.759E1	1 454.631	1 454.926	1 459.044	1 459.361	1 457.020	1 450.421	1 447.739	1 452.046	1 453.744	21
22	1 452.601	1 453.451	1 453.762E1	1 454.698	1 455.051	1 459.059	1 459.364	1 456.877	1 450.135	1 447.773	1 452.140	1 453.802	22
23	1 452.625	1 453.469	1 453.765E1	1 454.749	1 455.140	1 459.068	1 459.367	1 456.749	1 449.839	1 447.840	1 452.262	1 453.829	23
24	1 452.646	1 453.485	1 453.768E1	1 454.771	1 455.243	1 459.105	1 459.382	1 456.569	1 449.547	1 447.907	1 452.384	1 453.844	24
25	1 452.677	1 453.503	1 453.771E1	1 454.740	1 455.326	1 459.132	1 459.401	1 456.438	1 449.251	1 447.952	1 452.485	1 453.881	25
26	1 452.695	1 453.521	1 453.771E1	1 454.731	1 455.353	1 459.132	1 459.388	1 456.292	1 448.952	1 448.044	1 452.576	1 453.920	26
27	1 452.729	1 453.533	1 453.774E1	1 454.792	1 455.390	1 459.099	1 459.376	1 456.115	1 448.647	1 448.163	1 452.662	1 453.933	27
28	1 452.768	1 453.561	1 453.777	1 454.884	1 455.481	1 459.102	1 459.373	1 455.926	1 448.355	1 448.282	1 452.741	1 453.942	28
29	1 452.7[illegible]		1 453.786	1 454.951	1 455.676	1 459.136	1 459.349	1 455.725	1 448.047	1 448.364	1 452.826	1 453.957	29
30	1 452.8[illegible]		1 453.795	1 454.902	1 455.972	1 459.224	1 459.315	1 455.524	1 447.730	1 448.480	1 452.887	1 453.990	30
31	1 452.860		1 453.805		1 456.301		1 459.260	1 455.319		1 448.705		1 454.042	31
MEAN	1 452.393	1 453.245	1 453.727	1 454.418	1 454.736	1 458.333	1 459.351	1 457.590	1 451.719	1 447.397	1 451.214	1 453.564	MEAN
MAX	1 452.860	1 453.561	1 453.805	1 454.951	1 456.301	1 459.224	1 459.465	1 459.224	1 455.127	1 448.705	1 452.887	1 454.042	MAX
MIN	1 451.890	1 452.905	1 453.579	1 453.838	1 454.137	1 456.557	1 459.254	1 455.319	1 447.730	1 446.425	1 448.983	1 452.957	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 1 453.980
MAXIMUM DAILY, 1 459.465 ON JUL 11
MINIMUM DAILY, 1 446.425 ON OCT 09
MAXIMUM INSTANTANEOUS,
1 459.471 AT 05:30 MDT ON JUL 03

WATER LEVELS ARE REFERRED TO UNITED STATES RECLAMATION SERVICE DATUM
APPLY 2.880 m ADJUSTMENT TO CONVERT TO GEODETIC SURVEY OF CANADA DATUM

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 49 42 N
LONG 113 31 16 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA, 167 km²

LALBY CREEK NEAR GIROUXVILLE - STATION NO. 07GJ005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	10.3 B	0.319	0.089	0.053	0.001	0	0	---	---	1
2	---	---	0 B	13.9 B	0.280	0.084	0.060	0	0	0	---	---	2
3	---	---	0 B	17.0 B	0.239	0.085	0.065	0	0	0	---	---	3
4	---	---	0 B	12.5 B	0.226	0.088	0.059	0	0	0	---	---	4
5	---	---	0 B	8.39 B	0.206	0.092	0.055	0	0	0	---	---	5
6	---	---	0 B	9.49 B	0.185	0.088	0.054	0	0	0	---	---	6
7	---	---	0 B	6.68 B	0.167	0.092	0.041	0	0	0	---	---	7
8	---	---	0 B	3.14 B	0.165	0.100	0.034	0	0	0	---	---	8
9	---	---	0 B	3.13	0.159	0.094	0.037	0	0	0	---	---	9
10	---	---	0 B	3.41	0.148	0.095	0.060	0	0	0	---	---	10
11	---	---	0 B	2.34	0.145	0.168	0.064	0	0	0	---	---	11
12	---	---	0 B	2.20	0.134	6.95	0.059	0	0	0	---	---	12
13	---	---	0 B	1.92	0.120	5.38	0.056	0	0	0	---	---	13
14	---	---	0 B	1.67	0.115	1.71	0.043	0	0	0	---	---	14
15	---	---	0 B	1.58	0.113	0.724	0.021	0	0	0.001	---	---	15
16	---	---	0 B	1.33	0.107	0.380	0.013	0	0	0.002	---	---	16
17	---	---	0 B	1.19	0.098	0.246	0.016	0	0	0.001	---	---	17
18	---	---	0 B	1.06	0.094	0.187	0.032	0	0	0.001	---	---	18
19	---	---	0 B	0.973	0.086	0.156	0.017	0	0	0.001	---	---	19
20	---	---	0 B	0.907	0.085	0.135	0.014	0	0	0.002	---	---	20
21	---	---	0 B	0.740	0.078	0.119	0.012	0	0	0.005	---	---	21
22	---	---	0 B	0.647	0.079	0.108	0.010	0	0	0.006	---	---	22
23	---	---	0 B	0.574	0.080	0.097	0.010	0	0	0.006	---	---	23
24	---	---	0 B	0.493	0.085	0.086	0.009	0	0	0.007	---	---	24
25	---	---	0 B	0.489	0.085	0.070	0.007	0	0	0.008	---	---	25
26	---	---	0 B	0.538	0.088	0.066	0.005	0	0	0.009	---	---	26
27	---	0B	0 B	0.533	0.084	0.064	0.005	0	0	0.010	---	---	27
28	---	0B	0.026B	0.475	0.083	0.062	0.004	0	0	0.010	---	---	28
29	---		0.570B	0.419	0.090	0.059	0.003	0	0	0.010A	---	---	29
30	---		2.01 B	0.357	0.098	0.052	0.003	0	0	0.010E	---	---	30
31	---		3.59 B		0.093		0.002	0		0.010E		---	31
TOTAL	---	---	6.196	108.375	4.134	17.726	0.923	0.001	0	0.099	---	---	TOTAL
MEAN	---	---	0.200	3.61	0.133	0.591	0.030	0	0	0.003	---	---	MEAN
MAX	---	---	3.59	17.0	0.319	6.95	0.065	0.001	0	0.010	---	---	MAX
MIN	---	---	0	0.357	0.078	0.052	0.002	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.561
MAXIMUM DAILY, 17.0B ON APR 03
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
22.4B AT 02:00 MST ON APR 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 47 29 N
LONG 117 20 10 W
DRAINAGE AREA, 160 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	79.7
FEB	---	AUG	0.086
MAR	535	SEP	0
APR	9 360	OCT	8.55
MAY	357	NOV	---
JUN	1 530	DEC	---

TOTAL DISCHARGE, 11 900 dam³

LATERAL 10 SPILLWAY NEAR CHIN - STATION NO. 05AG007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	D
1	---	---	---	---	0 A	0.060	0.291	0.280	0.239	0.324	---	---	
2	---	---	---	---	0 E	0.003	0.286	0.198	0.139	0.325	---	---	
3	---	---	---	---	0 E	0.001	0.313	0.165	0.284	0.304	---	---	
4	---	---	---	---	0 E	0	0.278	0.235	0.212	0.314	---	---	
5	---	---	---	---	0 E	0.111	0.219	0.277	0.281	0.296	---	---	
6	---	---	---	---	0 E	0.087	0.262	0.207	0.262	0.410	---	---	
7	---	---	---	---	0 E	0.068	0.279	0.280	0.218	0.404	---	---	
8	---	---	---	---	0.058E	0.136	0.385	0.264	0.314	0.345	---	---	
9	---	---	---	---	0.045E	0.148	0.319	0.342	0.301	0.334	---	---	
10	---	---	---	---	0.127E	0.171	0.270	0.226	0.374	0.417	---	---	1
11	---	---	---	---	0.165E	0.215	0.268	0.236	0.296	0.093	---	---	1
12	---	---	---	---	0.189E	0.208	0.257	0.350	0.250	0.011	---	---	1
13	---	---	---	---	0.170E	0.242	0.268	0.377	0.241	0.005	---	---	1
14	---	---	---	---	0.090E	0.263	0.272	0.404	0.291	0.004	---	---	1
15	---	---	---	---	0.060E	0.233	0.230	0.268	0.321	0.003	---	---	1
16	---	---	---	---	0.070E	0.254	0.223	0.202	0.342	0.003	---	---	1
17	---	---	---	---	0.060E	0.314	0.210	0.352	0.366	0.003	---	---	1
18	---	---	---	0A	0.100E	0.249	0.200	0.359	0.343	0.003	---	---	1
19	---	---	---	0	0.150E	0.163	0.332	0.348	0.300	0.003	---	---	1
20	---	---	---	0	0.170E	0.290	0.384	0.234	0.229	0.002	---	---	2
21	---	---	---	0	0.180E	0.310	0.420	0.229	0.207	0.002	---	---	2
22	---	---	---	0	0.170E	0.281	0.444	0.275	0.319	0.002	---	---	2
23	---	---	---	0	0.180E	0.269	0.407	0.328	0.359	0	---	---	2
24	---	---	---	0	0.190A	0.260	0.298	0.412	0.282	0	---	---	2
25	---	---	---	0	0.211	0.293	0.265	0.387	0.270	0	---	---	2
26	---	---	---	0	0.117	0.335	0.349	0.404	0.317	0	---	---	2
27	---	---	---	0	0.107	0.283	0.468	0.448	0.260	0	---	---	2
28	---	---	---	0	0.067	0.358	0.446	0.270	0.349	0	---	---	2
29	---	---	---	0	0.102	0.230	0.485	0.196	0.308	0	---	---	2
30	---		---	0	0.114	0.275	0.426	0.215	0.322	0	---	---	3
31	---		---		0.070		0.305	0.238		0 A		---	3
TOTAL	---	---	---	---	2.962	6.110	9.859	9.006	8.596	3.607	---	---	TOT
MEAN	---	---	---	---	0.096	0.204	0.318	0.291	0.287	0.116	---	---	MEA
MAX	---	---	---	---	0.211	0.358	0.485	0.448	0.374	0.417	---	---	MAX
MIN	---	---	---	---	0	0	0.200	0.165	0.139	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.218
MAXIMUM DAILY, 0.485 ON JUL 29
MINIMUM DAILY, 0A ON MAY 01

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 50 38 N
LONG 112 25 46 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	852
FEB	---	AUG	778
MAR	---	SEP	743
APR	---	OCT	312
MAY	256	NOV	---
JUN	528	DEC	---

TOTAL DISCHARGE, 3 470 dam³

LEE CREEK AT CARDSTON - STATION NO. 05AE002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DA
1	0.539B	0.440B	0.980B	2.50	6.13	8.15	1.97	0.910	0.325	0.220	0.367	0.161B	1
2	0.523B	0.444B	0.946B	3.93	8.19	7.59	1.85	0.974	0.289	0.209	0.382	0.085B	2
3	0.518B	0.458B	0.939B	5.21	6.93	7.07	1.79	1.17	0.261	0.224	0.298B	0.133B	3
4	0.489B	0.478B	0.952B	4.20	6.45	6.30	1.65	0.994	0.261	0.246	0.390B	0.153B	4
5	0.478B	0.477B	0.994B	3.15	6.45	5.70	1.72	0.902	0.257	0.364	0.385B	0.151B	5
6	0.513B	0.470B	0.985B	3.00	7.13	5.20	2.62	0.793	0.187	0.870	0.301B	0.137B	6
7	0.562B	0.463B	1.55 B	3.03	7.11	4.96	1.96	0.736	0.187	0.714	0.357B	0.118B	7
8	0.548B	0.458B	1.54 B	3.70	6.43	4.61	1.71	0.642	0.190	0.590	0.386B	0.116B	8
9	0.545B	0.457B	1.39 B	3.07B	5.99	4.28	1.49	0.575	0.185	0.549	0.452B	0.121B	9
10	0.545B	0.595B	1.19 B	2.41B	6.60	4.23	1.32	0.634	0.212	0.632	0.370	0.120B	10
11	0.502B	0.711B	1.08 B	2.74B	5.77	4.23	1.21	0.645	0.154	0.706	0.475	0.107B	11
12	0.446B	0.695B	0.633B	3.33	5.77	3.78	1.08	0.567	0.147	0.671	0.503	0.065B	12
13	0.458B	0.661B	0.719B	3.44	5.63	3.62	0.984	0.558	0.199	0.619	0.450	0.029B	13
14	0.478B	0.628B	0.937B	3.67	5.17	5.84	0.960	0.512	0.177	0.597	0.410B	0.072B	14
15	0.473B	0.603B	0.920B	4.33	5.56	4.29	0.922	0.489	0.179	0.597	0.350B	0.116B	15
16	0.459B	0.618B	0.794B	4.99	5.33	3.57	0.882	0.470	0.170	0.583	0.348B	0.151B	16
17	0.442B	0.595B	0.808B	4.57	4.91	3.28	0.830	0.464	0.216	0.422	0.350B	0.170B	17
18	0.437B	0.563B	0.740B	4.89	4.79	3.11	0.803	0.485	0.257	0.386	0.310B	0.161B	18
19	0.462B	0.569B	0.960B	6.36	4.67	3.05	0.896	0.520	0.284	0.384	0.280B	0.120B	19
20	0.500B	0.615B	1.95 B	7.58	4.46	3.30	1.15	0.736	0.281	0.368	0.275B	0.035B	20
21	0.538B	0.690B	1.60 B	8.55	4.20	3.92	1.02	0.798	0.297	0.346	0.283B	0.039B	21
22	0.555B	0.780B	1.25 B	8.23	3.92	3.31	0.885	0.555	0.346	0.348	0.258B	0.062B	22
23	0.538B	0.930B	1.78 B	7.45	4.09	3.16	0.881	0.463	0.316	0.345	0.235B	0.088B	23
24	0.530B	1.48 B	2.82 B	6.73	5.31	2.99	0.856	0.442	0.262	0.297	0.246B	0.120B	24
25	0.518B	1.32 B	3.06 B	6.08	8.76	2.80	2.95	0.516	0.184	0.315	0.205B	0.150B	25
26	0.503B	1.28 B	2.40 B	5.73	6.69	2.66	3.67	0.541	0.183	0.275	0.140B	0.140B	26
27	0.491B	1.32 B	1.53 B	5.41	5.98	2.51	1.95	0.503	0.173	0.380	0.100B	0.080B	27
28	0.478B	1.15 B	1.39 B	5.69	5.82	2.37	1.59	0.428	0.193	0.367	0.067B	0.049B	28
29	0.467B		1.44	5.04	15.1	2.21	1.51	0.364	0.203	0.358	0.055B	0.060B	29
30	0.452B		1.86	4.86	14.0	2.05	1.22	0.322	0.201	0.337	0.052B	0.082B	30
31	0.441B		2.45		9.30		0.977	0.336		0.324		0.088B	31
TOTAL	15.428	19.948	42.594	143.87	202.64	125.54	45.306	19.046	6.776	13.643	9.084	3.279	TOT
MEAN	0.498	0.712	1.37	4.80	6.54	4.18	1.46	0.614	0.226	0.440	0.303	0.106	MEAN
MAX	0.562	1.48	3.06	8.55	15.1	8.15	3.67	1.17	0.346	0.870	0.503	0.170	MAX
MIN	0.437	0.440	0.633	2.41	3.92	2.05	0.803	0.322	0.147	0.209	0.052	0.029	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.77
MAXIMUM DAILY, 15.1 ON MAY 29
MINIMUM DAILY, 0.029B ON DEC 13
MAXIMUM INSTANTANEOUS,
20.0 AT 20:20 MST ON MAY 29

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 12 00 N
LONG 113 17 45 W
DRAINAGE AREA, 307 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 330	JUL	3 910
FEB	1 720	AUG	1 650
MAR	3 680	SEP	585
APR	12 400	OCT	1 180
MAY	17 500	NOV	785
JUN	10 800	DEC	283

TOTAL DISCHARGE, 55 800 dam³

LEE CREEK BELOW CONFLUENCE OF EAST FORK - STATION NO. 05AE904

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	2.00E	3.03	4.27	1.25	0.677	0.240	0.179	---	---	1
2	---	---	---	2.00E	3.58	4.01	1.17	0.641	0.236	0.197	---	---	2
3	---	---	---	2.00E	3.44	3.92	1.16	0.612	0.237	0.199	---	---	3
4	---	---	---	1.80A	3.62	3.63	1.10	0.711	0.235	0.247	---	---	4
5	---	---	---	1.73	3.86	3.40	1.09	0.628	0.225	0.589	---	---	5
6	---	---	---	1.66	4.53	3.22	1.46	0.574	0.202	0.451	---	---	6
7	---	---	---	1.86	4.07	3.14	1.06	0.532	0.190	0.326	---	---	7
8	---	---	---	2.05	3.57	3.04	0.920	0.511	0.184	0.305	---	---	8
9	---	---	---	1.63	3.52	3.02	0.858	0.471	0.191	0.297	---	---	9
10	---	---	---	2.23	3.59	3.05	0.812	0.448	0.182	0.350	---	---	10
11	---	---	---	1.53	3.20	3.02	0.716	0.428	0.174	0.312	---	---	11
12	---	---	---	1.49	3.06	2.83	0.685	0.431	0.176	0.294	---	---	12
13	---	---	---	1.50	2.95	3.16	0.670	0.423	0.189	0.284	---	---	13
14	---	---	---	1.88	2.87	3.16	0.626	0.416	0.183	0.263	---	---	14
15	---	---	---	2.50	3.08	2.80	0.635	0.393	0.174	0.259	---	---	15
16	---	---	---	2.74	2.94	2.68	0.572	0.381	0.167	0.277	---	---	16
17	---	---	---	2.51	2.76	2.58	0.573	0.364	0.161	0.251	---	---	17
18	---	---	---	3.28	2.56	2.64	0.544	0.345	0.172	0.268	---	---	18
19	---	---	---	4.18	2.56	2.64	0.589	0.335	0.168	0.270	---	---	19
20	---	---	---	4.93	2.54	2.71	0.683	0.335	0.181	0.248	---	---	20
21	---	---	---	5.42	2.48	2.77	0.663	0.323	0.182	0.230	---	---	21
22	---	---	---	5.01	2.40	2.53	0.581	0.335	0.178	0.219	---	---	22
23	---	---	---	4.63	2.62	2.39	0.577	0.342	0.180	0.214	---	---	23
24	---	---	---	4.25	3.42	2.26	0.592	0.406	0.165	0.206	---	---	24
25	---	---	---	3.84	4.15	2.12	2.37	0.712	0.164	0.218	---	---	25
26	---	---	---	3.47	3.42	1.93	1.50	0.488	0.166	0.292	---	---	26
27	---	---	---	3.32	3.11	1.73	1.04	0.388	0.173	0.278	---	---	27
28	---	---	---	3.15	3.41	1.68	0.866	0.364	0.180	0.233	---	---	28
29	---	---	---	2.89	6.55	1.63	0.892	0.306	0.182	0.225	---	---	29
30	---		---	2.76	5.34	1.44	0.794	0.288	0.177	0.216	---	---	30
31	---		---		4.21		0.726	0.267		0.229		---	31
TOTAL	---	---	---	84.24	106.46	83.30	27.794	13.855	5.622	8.426	---	---	TOTAL
MEAN	---	---	---	2.81	3.43	2.78	0.897	0.447	0.187	0.272	---	---	MEAN
MAX	---	---	---	5.42	6.55	4.27	2.37	0.712	0.248	0.589	---	---	MAX
MIN	---	---	---	1.49	2.40	1.44	0.544	0.267	0.161	0.179	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.33
MAXIMUM DAILY, 6.55 ON MAY 29
MINIMUM DAILY, 0.161 ON SEP 17
MAXIMUM INSTANTANEOUS,
7.87 AT 03:15 MST ON MAY 29

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 01 30 N
LONG 113 02 30 W
DRAINAGE AREA, 94.5 km²

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2 400
FEB	---	AUG	1 200
MAR	---	SEP	486
APR	84.24	OCT	728
MAY	9 200	NOV	---
JUN	7 200	DEC	---

TOTAL DISCHARGE, 21 200 dam³

LESSER SLAVE LAKE AT FAUST - STATION NO. 07BJ002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	576.383A	576.322	576.451	576.565	576.712	576.639	576.478	---	---	---	1
2	---	---	576.373	576.317	576.453	576.556	576.735	576.634	576.465	---	576.256A	---	2
3	---	---	576.371	576.319	576.461	576.562	576.739	576.628	576.456	---	---	---	3
4	---	---	576.367	576.326	576.469	576.550	576.736	576.622	576.451	---	---	---	4
5	---	---	576.364	576.327	576.477	576.546	576.748	576.628	576.465	---	---	---	5
6	---	---	576.358	576.321	576.477	576.567	576.741	576.613	576.459	---	---	---	6
7	---	---	576.361	576.329	576.488	576.560	576.736	576.573	576.452	---	---	---	7
8	---	---	576.350	576.326	576.491	576.553	576.736	576.587	576.446	---	---	---	8
9	---	---	576.353	576.327	576.499	576.559	576.729	576.588	576.444	---	---	---	9
10	---	---	576.350	576.331	576.499	576.569	576.732	576.574	576.436	---	---	---	10
11	---	---	576.344	576.336	576.511	576.625	576.738	576.571	576.446	---	---	---	11
12	---	---	576.343	576.337	576.510	576.640	576.740	576.570	576.421	---	---	---	12
13	---	---	576.342	576.341	576.509	576.662	576.689	576.567	576.422	---	---	---	13
14	---	---	576.338	576.341	576.512	576.693	576.692	576.566	576.420	---	---	---	14
15	---	---	576.339	576.344	576.518	576.715	576.711	576.557	576.432	---	---	---	15
16	---	---	576.334	576.349	576.520	576.725	576.709	576.544	576.422	---	---	---	16
17	---	---	576.331	576.355	576.523	576.723	576.710	576.536	576.390	---	---	---	17
18	---	---	576.328	576.353	576.522	576.727	576.697	576.537	576.398	---	---	---	18
19	---	---	576.329	576.358	576.542	576.732	576.702	576.527	576.379	---	---	---	19
20	---	---	576.323	576.366	576.532	576.739	576.691	576.519	576.388	---	---	---	20
21	---	---	576.321	576.372	576.529	576.750	576.695	576.511	576.381	---	---	---	21
22	---	---	576.317	576.376	576.538	576.761	576.701	576.506	576.383	---	---	---	22
23	---	---	576.319	576.381	576.544	576.743	576.691	576.493	576.372	---	---	---	23
24	---	---	576.320	576.388	576.548	576.752	576.694	576.486	576.354	---	---	---	24
25	---	---	576.324	576.401	576.551	576.747	576.687	576.495	---	---	---	---	25
26	---	---	576.318	576.412	576.558	576.747	576.680	576.485	---	---	---	---	26
27	---	---	576.316	576.424	576.558	576.741	576.670	576.467	---	---	---	---	27
28	---	---	576.312	576.431	576.557	576.732	576.666	576.446	---	---	---	---	28
29	---		576.315	576.436	576.561	576.732	576.665	576.453	---	---	---	---	29
30	---		576.313	576.444	576.559	576.733	576.663	576.477	---	---	---	---	30
31	---		576.315		576.554		576.653	576.483		---		---	31
MEAN	---	---	576.338	576.360	576.517	576.667	576.706	576.545	---	---	---	---	MEAN
MAX	---	---	576.383	576.444	576.561	576.761	576.748	576.639	---	---	---	---	MAX
MIN	---	---	576.312	576.317	576.451	576.546	576.653	576.446	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 576.761 ON JUN 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 19 18 N
LONG 115 38 32 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA,
13 600 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LESSER SLAVE LAKE AT SLAVE LAKE - STATION NO. 07BJ006

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	576.475	576.405	576.369	576.301	576.456	576.555	576.765	576.669	576.489	576.273	576.275	576.147	1
2	576.474	576.402	576.360	576.323	576.459	576.542	576.727	576.663	576.521	576.426	576.219	576.159	2
3	576.481	576.401	576.363	576.324	576.467	576.514	576.753	576.623	576.500	576.354	576.158	576.139	3
4	576.476	576.405	576.360	576.322	576.472	576.555	576.736	576.624	576.486	576.276	576.273	576.151	4
5	576.464	576.407	576.358	576.325	576.470	576.578	576.723	576.596	576.479	576.308	576.151	576.161	5
6	576.473	576.411	576.356	576.333	576.484	576.550	576.734	576.637	576.455	576.303	576.145	576.163	6
7	576.469	576.403	576.350	576.328	576.467	576.542	576.753	576.657	576.480	576.294	576.172	576.156	7
8	576.469	576.423	576.360	576.342	576.477	576.571	576.740	576.589	576.474	576.289	576.310	576.165	8
9	576.464	576.397	576.353	576.347	576.494	576.562	576.747	576.553	576.463	576.325	576.127	576.158	9
10	576.483	576.402	576.346	576.341	576.486	576.546	576.746	576.571	576.454	576.378	576.185	576.151	10
11	576.460	576.405	576.349	576.337	576.508	576.594	576.713	576.568	576.423	576.266	576.112	576.162	11
12	576.446	576.418	576.343	576.345	576.515	576.650	576.718	576.566	576.464	576.282	576.121	576.155	12
13	576.455	576.401	576.339	576.349	576.518	576.684	576.867	576.568	576.429	576.352	576.120	576.153	13
14	576.455	576.380	576.341	576.347	576.503	576.604	576.837	576.512	576.433	576.324	576.137	576.151	14
15	576.451	576.393	576.337	576.350	576.491	576.704	576.725	576.500	576.384	576.283	576.137	576.154	15
16	576.450	576.393	576.338	576.350	576.482	576.733	576.733	576.490	576.426	576.253	576.135	576.142	16
17	576.446	576.389	576.334	576.346	576.516	576.762	576.739	576.485	576.478	576.243	576.163	576.154	17
18	576.441	576.394	576.321	576.363	576.532	576.782	576.734	576.473	576.387	576.225	576.157	576.168	18
19	576.434	576.389	576.331	576.362	576.499	576.780	576.714	576.496	576.453	576.401	576.151	576.156	19
20	576.445	576.390	576.340	576.368	576.536	576.762	576.715	576.502	576.399	576.257	576.174	576.148	20
21	576.437	576.390	576.345	576.374	576.533	576.745	576.702	576.496	576.393	576.225	576.166	576.132	21
22	576.433	576.395	576.337	576.383	576.531	576.735	576.679	576.558	576.364	576.330	576.171	576.153	22
23	576.434	576.392	576.332	576.391	576.522	576.771	576.703	576.611	576.394	576.234	576.166	576.148	23
24	576.432	576.364	576.337	576.410	576.538	576.745	576.679	576.523	576.438	576.207	576.162	576.154	24
25	576.430	576.394	576.320	576.423	576.543	576.751	576.667	576.487	576.436	576.232	576.165	576.138	25
26	576.451	576.378	576.320	576.429	576.536	576.740	576.664	576.486	576.387	576.255	576.152	576.138	26
27	576.433	576.374	576.315	576.431	576.535	576.766	576.710	576.502	576.360	576.102	576.162	576.171	27
28	576.443	576.381	576.316	576.442	576.525	576.761	576.679	576.515	576.257	576.308	576.155	576.154	28
29	576.435		576.317	576.453	576.511	576.742	576.651	576.492	576.407	576.222	576.168	576.134	29
30	576.431		576.320	576.455	576.529	576.745	576.640	576.480	576.368	576.186	576.173	576.149	30
31	576.424		576.319		576.547		576.671	576.474		576.229		576.148	31
MEAN	576.451	576.395	576.340	576.366	576.506	576.672	576.721	576.547	576.429	576.279	576.169	576.152	MEAN
MAX	576.483	576.423	576.369	576.455	576.547	576.782	576.867	576.669	576.521	576.426	576.318	576.171	MAX
MIN	576.424	576.364	576.315	576.301	576.456	576.514	576.640	576.473	576.257	576.102	576.112	576.132	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 576.419
MAXIMUM DAILY, 576.867 ON JUL 13
MINIMUM DAILY, 576.102 ON OCT 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 18 15 N
LONG 114 46 18 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA, 13 600 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

LESSER SLAVE RIVER AT SLAVE LAKE - STATION NO. 07BK001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	41.9	35.8A	35.1	30.5	41.1	47.6	61.5	57.1	42.9	27.7	29.4	20.2	1
2	41.4	34.9	34.5	31.8	41.9	47.0	59.2	56.5	44.9	38.9	25.7	20.7B	2
3	42.5	35.7	34.8	32.0	42.4	44.2	61.0	53.7	43.5	34.1	21.2	19.7	3
4	42.2	36.9	34.6	31.5	43.0	48.0	60.3	53.9	42.9	29.1	27.4	20.1B	4
5	41.6	36.7	34.1	31.6	43.1	49.5	59.5	51.4	42.1	31.2	10.9	20.1B	5
6	43.0	36.9	33.7	32.5	43.8	46.8	60.2	53.2	40.6	30.9	9.50	21.0B	6
7	41.5	36.5	33.7	31.7	40.7	46.8	61.0	55.8	43.2	30.2	14.3	20.7B	7
8	41.5	38.3	34.6	32.8	42.4	48.7	60.7	51.1	41.7	29.5	23.2	21.3B	8
9	40.3	36.2	33.7	32.7	43.5	47.4	61.2	49.0	40.4	32.0	15.0	20.7B	9
10	42.8	37.3	33.1	32.3	42.2	46.5	60.8	49.6	41.2	35.5	18.3	20.5B	10
11	40.8	36.8	33.7	32.2	44.5	51.5	59.2	49.5	38.0	28.3	14.9	20.6B	11
12	40.0	36.5	33.1	32.9	45.5	58.0	59.2	48.8	41.6	29.1	17.1	20.6B	12
13	39.9	35.7A	32.7	33.0	45.5	60.1	65.6	49.0	38.7	33.9	18.8	20.3B	13
14	40.1	35.3A	32.7	33.0	41.1	58.7	64.8	44.4	39.3	32.5	19.5	20.5B	14
15	39.8	35.2	32.9	33.5	37.1	59.3	59.9	44.0	35.0	29.7	19.0 B	20.5B	15
16	39.5	35.4	32.6	33.5	38.5	60.5	59.7	42.9	38.3	27.2	18.9 B	20.1B	16
17	39.0	35.3A	32.2	33.1	45.7	61.7	60.2	42.7	42.3	27.1	19.8 B	20.1B	17
18	39.3	36.1	31.6	34.9	46.5	62.4	60.5	41.9	36.0	25.5	20.7 B	17.9	18
19	38.4	35.8	31.5	34.5	43.5	62.1	58.7	43.1	40.8	36.9	20.1 B	19.5	19
20	39.6	36.1	32.0	35.0	46.4	61.9	59.2	44.0	37.0	28.1	21.0 B	19.7	20
21	39.0	35.7	32.6	35.2	47.1	60.7	58.8	43.8	37.0	24.2	21.3 B	18.8A	21
22	38.2	36.6	32.0	35.9	46.5	59.7	57.4	50.4	34.8	32.6	21.0 B	19.9	22
23	38.9	36.2	31.5	36.5	46.2	62.1	58.8	51.9	36.9	26.5	21.3 B	19.8B	23
24	38.4	34.4	31.9	38.0	46.9	59.9	57.4	45.3	39.7	24.4	21.2 B	20.1B	24
25	37.7	36.9	31.0	38.8	46.3	60.7	56.5	42.9	39.6	25.8	21.0 B	19.5	25
26	37.7	35.6	31.3	39.2	46.7	60.3	56.5	42.6	35.9	26.5	20.1 B	20.1	26
27	39.1	35.3	31.8	39.2	46.8	61.2	59.4	44.1	34.8	27.2	20.7 B	19.3	27
28	39.7	35.4	31.5	40.2	45.8	61.5	57.6	45.5	27.3	29.6	21.0 B	18.1A	28
29	38.6A		32.0	41.0	45.7	60.4	56.0	43.0	38.1	26.1	20.7 B	20.3E	29
30	37.9A		32.0	41.1	46.2	60.5	55.5	42.6	36.3	23.5	21.3 B	20.0E	30
31	37.1A		31.6		47.8		56.5	41.1		25.6		19.5E	31
TOTAL	1 237.4	1 009.7	1 016.1	1 040.1	1 370.4	1 675.7	1 842.8	1 474.8	1 170.8	899.4	594.30	620.2	TOTAL
MEAN	39.9	36.1	32.8	34.7	44.2	55.9	59.4	47.6	39.0	29.0	19.8	20.0	MEAN
MAX	43.0	38.3	35.1	41.1	47.8	62.4	65.6	57.1	44.9	38.9	29.4	21.3	MAX
MIN	37.1	34.4	31.0	30.5	37.1	44.2	55.5	41.1	27.3	17.2	9.50	17.9	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 30.2
MAXIMUM DAILY, 65.6 ON JUL 13
MINIMUM DAILY, 9.50 ON NOV 06
MAXIMUM INSTANTANEOUS,
68.4 AT 15:30 MST ON JUL 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 18 19 N
LONG 114 45 08 W
DRAINAGE AREA, 13 600 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	107 000	JUL	159 000
FEB	87 200	AUG	127 000
MAR	87 800	SEP	101 000
APR	89 900	OCT	77 700
MAY	118 000	NOV	51 300
JUN	145 000	DEC	53 600

TOTAL DISCHARGE, 1 200 000 dam³

LETHBRIDGE NORTHERN IRRIGATION DISTRICT CANAL ABOVE OLDMAN FLUME - STATION NO. 05AB019

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0 E	6.31	5.54	42.0	8.63	9.03	9.07	0	---	1
2	---	---	---	0 E	9.42	5.26	42.2	9.24	9.01	9.02	0A	---	2
3	---	---	---	0 E	9.76	5.29	42.7	9.22	9.02	9.09	---	---	3
4	---	---	---	0 E	6.81	5.20	43.0	9.13	9.01	9.02	---	---	4
5	---	---	---	0 E	7.03	5.12	42.9	9.07	8.97	9.21	---	---	5
6	---	---	---	0 E	7.15	4.94	42.8	8.98	8.93	9.74	---	---	6
7	---	---	---	0 E	8.12	5.95	43.5	8.95	9.51	9.55	---	---	7
8	---	---	---	0 E	8.50	6.79	43.5	10.4	9.22	9.42	---	---	8
9	---	---	---	0 E	9.15	6.88	43.0	14.0	9.23	9.35	---	---	9
10	---	---	---	0 E	7.82	6.83	43.3	20.2	9.20	9.28	---	---	10
11	---	---	---	0 E	7.68	7.00	43.3	22.6	9.19	9.33	---	---	11
12	---	---	---	0 E	7.51	7.22	43.2	22.4	9.19	9.27	---	---	12
13	---	---	---	0 E	7.48	7.03	43.5	23.5	9.26	9.25	---	---	13
14	---	---	---	0 E	7.41	6.89	42.6	24.7	9.24	8.69	---	---	14
15	---	---	---	0 E	7.98	6.78	42.1	24.1	9.24	2.39	---	---	15
16	---	---	---	0 E	10.6	6.85	42.0	23.4	9.01	0	---	---	16
17	---	---	---	1.13E	11.6	6.81	42.0	23.1	9.09	0	---	---	17
18	---	---	---	1.13E	12.8	6.81	40.6	23.3	9.18	0	---	---	18
19	---	---	---	1.13E	14.0	8.68	39.9	23.2	9.20	0	---	---	19
20	---	---	---	1.13E	14.1	11.8	36.2	18.3	9.22	0	---	---	20
21	---	---	---	1.13E	14.2	17.1	29.0	12.1	9.21	0	---	---	21
22	---	---	---	1.13E	16.2	19.9 A	27.8	11.0	9.19	0	---	---	22
23	---	---	---	1.78A	18.3	25.3 E	25.3	11.0	9.16	0	---	---	23
24	---	---	---	3.49	18.6	25.6 E	24.0	11.0	9.14	0	---	---	24
25	---	---	---	5.85	14.0	35.5 A	24.1	11.0	9.14	0	---	---	25
26	---	---	---	7.15	11.1	39.6	21.3	10.9	9.13	0	---	---	26
27	---	---	OE	7.14	11.5	42.4	15.0	9.84	9.13	0	---	---	27
28	---	---	OE	7.28	9.64	42.5	12.9	8.93	9.12	0	---	---	28
29	---	---	OE	6.83	7.83	42.2	12.5	8.91	9.07	0	---	---	29
30	---		OE	6.58	6.36	42.1	11.9	9.02	9.08	0	---	---	30
31	---		OE		5.73		10.0	9.01		0		---	31
TOTAL	---	---	---	52.88	307.69	465.87	1 058.1	449.13	274.32	131.68	---	---	TOTAL
MEAN	---	---	---	1.76	9.93	15.5	34.1	14.5	9.14	4.25	---	---	MEAN
MAX	---	---	---	7.28	18.6	42.5	43.5	24.7	9.51	9.74	---	---	MAX
MIN	---	---	---	0	5.73	4.94	10.0	8.63	8.93	0	---	---	MIN

SUMMARY FOR THE MONTHS APR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 12.8
MAXIMUM DAILY, 43.5 ON JUL 07
MINIMUM DAILY, OE ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 41 10 N
LONG 113 34 20 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	91 400
FEB	---	AUG	38 800
MAR	---	SEP	23 700
APR	4 570	OCT	11 400
MAY	26 600	NOV	---
JUN	40 300	DEC	---

TOTAL DISCHARGE, 237 000 dam³

LILY CREEK NEAR SLAVE LAKE - STATION NO. 07BG004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.026B	0.087B	0.447	0.160A	0.132	0.015A	0.068	0.005	0.025B	---	1
2	---	---	0.029B	0.113B	0.428	0.158A	0.136	0.013A	0.064	0.006	---	---	2
3	---	---	0.030B	0.126B	0.412	0.159	0.163	0.015	0.051	0.007	---	---	3
4	---	---	0.029B	0.145B	0.454	0.160	0.153	0.017	0.031	0.008	---	---	4
5	---	---	0.025B	0.137B	0.472	0.187	0.126	0.017	0.025	0.008	---	---	5
6	---	---	0.026B	0.121B	0.496	0.188	0.123	0.016	0.036	0.010	---	---	6
7	---	---	0.028B	0.117B	0.405	0.178	0.147	0.017	0.030	0.014	---	---	7
8	---	---	0.030B	0.108B	0.160	0.170	0.132	0.017	0.023	0.015	---	---	8
9	---	---	0.027B	0.078B	0.236	0.160	0.121	0.017	0.022	0.016	---	---	9
10	---	---	0.020B	0.076B	0.272	0.160	0.126	0.018	0.017	0.055	---	---	10
11	---	---	0.026B	0.066B	0.266	0.378	0.102	0.020	0.016	0.069	---	---	11
12	---	---	0.024B	0.064B	0.244	0.576	0.076	0.022	0.014	0.042	---	---	12
13	---	---	0.021B	0.072B	0.236	0.524	0.082	0.026	0.014	0.034	---	---	13
14	---	---	0.019B	0.098B	0.216	0.438	0.072	0.027	0.014	0.072	---	---	14
15	---	---	0.019B	0.119B	0.212	0.340	0.062	0.023	0.014	0.060	---	---	15
16	---	---	0.020B	0.128B	0.212	0.267	0.060	0.014	0.013	0.029	---	---	16
17	---	---	0.020B	0.152B	0.224	0.224	0.078	0.066	0.012	0.022	---	---	17
18	---	---	0.020B	0.263B	0.220	0.200	0.082	0.095	0.012	0.024	---	---	18
19	---	---	0.020B	0.345B	0.256	0.185	0.071	0.086	0.011	0.024	---	---	19
20	---	---	0.020B	0.371B	0.470A	0.175	0.060	0.068	0.013	0.020	---	---	20
21	---	---	0.020B	0.418B	0.425A	0.163	0.053	0.066	0.014	0.019	---	---	21
22	---	---	0.019B	0.418B	0.208A	0.151	0.035	0.145	0.013	0.024	---	---	22
23	---	---	0.019B	0.551	0.155A	0.142	0.019	0.192	0.012	0.027	---	---	23
24	---	---	0.020B	0.585	0.124	0.127	0.016	0.082	0.010	0.024	---	---	24
25	---	---	0.020B	0.483	0.140	0.111	0.015	0.059	0.010	0.018	---	---	25
26	---	---	0.019B	0.370	0.159	0.137A	0.015	0.047	0.009A	0.028	---	---	26
27	---	---	0.020B	0.320	0.159	0.146A	0.013	0.043	0.009A	0.042	---	---	27
28	---	0.030B	0.032B	0.303	0.148	0.134A	0.012	0.037	0.008A	0.045	---	---	28
29	---		0.047B	0.269	0.142	0.130A	0.009	0.030A	0.008	0.040	---	---	29
30	---		0.062B	0.333	0.146	0.120	0.010	0.026A	0.006	0.042B	---	---	30
31	---		0.067B		0.158A		0.012	0.070		0.033B		---	31
TOTAL	---	---	0.832	6.836	8.322	6.348	2.313	1.366	0.599	0.882	---	---	TOTAL
MEAN	---	---	0.027	0.228	0.269	0.212	0.075	0.044	0.020	0.029	---	---	MEAN
MAX	---	---	0.067	0.585	0.496	0.576	0.163	0.152	0.068	0.072	---	---	MAX
MIN	---	---	0.019	0.084	0.124	0.111	0.009	0.013	0.006	0.005	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.112
MAXIMUM DAILY, 0.585 ON APR 24
MINIMUM DAILY, 0.005 ON OCT 01
MAXIMUM INSTANTANEOUS,
0.620 AT 07:00 MST ON APR 21

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 24 56 N
LONG 114 48 47 W
DRAINAGE AREA, 23.8 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	200
FEB	---	AUG	118
MAR	71.9	SEP	51.7
APR	591	OCT	76.2
MAY	719	NOV	---
JUN	548	DEC	---

TOTAL DISCHARGE, 2 380 dam³

LITTLE BERLAND RIVER AT HIGHWAY NO. 40 - STATION NO. 07AC008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.187B	0.190B	0.467	6.78	2.05	1.78	1.56	1.14	0.290B	---	1
2	---	---	0.185B	0.196B	0.549	6.63	2.55	1.74	1.60	1.07	0.366B	---	2
3	---	---	0.184B	0.204B	0.617	5.63	4.65	1.69	1.66	1.05	0.358B	---	3
4	---	---	0.183B	0.212B	0.704	5.24	5.09	1.61	1.69	1.04	0.321B	---	4
5	---	---	0.182B	0.225B	0.882	4.52	4.73	1.54	1.65	1.00	0.400B	---	5
6	---	---	0.180B	0.232B	0.970	3.94	12.2	1.49	1.59	0.956	0.479B	---	6
7	---	---	0.179B	0.240B	0.686	3.49	17.4	1.43	1.53	0.912	0.558B	---	7
8	---	---	0.178B	0.240B	0.587	3.04	12.0	1.38	1.47	0.888	---	---	8
9	---	---	0.176B	0.220B	0.590	2.94	8.78	1.34	1.41	0.900	---	---	9
10	---	---	0.175B	0.210B	0.578	2.56	6.72	1.31	1.35	0.857	---	---	10
11	---	---	0.174B	0.220B	0.616	4.18	5.48	1.26	1.29	0.789B	---	---	11
12	---	---	0.173B	0.240B	0.608	5.44	4.61	1.23	1.33	0.729B	---	---	12
13	---	---	0.171B	0.270B	0.640	8.81	3.98	1.21	1.24	0.669B	---	---	13
14	---	---	0.170B	0.316B	0.743	8.32	3.38	1.20	1.16	0.592B	---	---	14
15	---	---	0.169B	0.362B	0.832	8.04	2.89	1.16	1.11	0.537B	---	---	15
16	---	---	0.167B	0.408B	0.923	7.62	2.58	1.21	1.56	0.496B	---	---	16
17	---	---	0.166B	0.454B	1.20	6.51	2.32	1.31	1.93	0.488B	---	---	17
18	---	---	0.165B	0.500B	1.36	5.55	2.21	1.21	1.53	0.427B	---	---	18
19	---	---	0.164B	0.540B	1.40	4.81	2.13	1.15	1.38	0.383B	---	---	19
20	---	---	0.162B	0.560E	1.34	4.16	1.96	1.09	1.33	0.355B	---	---	20
21	---	---	0.161B	0.562E	1.29	3.65	1.84	1.04	1.36	0.326B	---	---	21
22	---	---	0.160B	0.560E	1.17	3.36	1.76	1.02	1.41	0.295B	---	---	22
23	---	---	0.160B	0.555E	1.17	3.02	1.73	1.03	1.44	0.275B	---	---	23
24	---	---	0.161B	0.540E	1.19	2.72	2.36	1.04	1.42	0.255B	---	---	24
25	---	---	0.163B	0.500E	1.72	2.46	2.01	1.10	1.40	0.239B	---	---	25
26	---	---	0.166B	0.490E	2.29	2.31	1.96	1.62	1.35	0.230B	---	---	26
27	---	---	0.168B	0.460E	2.05	2.15	1.97	1.40	1.31	0.205B	---	---	27
28	---	0.188B	0.171B	0.440E	2.08	2.13	1.96	1.27	1.28	0.213B	---	---	28
29	---		0.174B	0.420E	2.92	2.36	1.91	1.23	1.22	0.200B	---	---	29
30	---		0.179B	0.400A	4.53	2.10	1.87	1.82	1.19	0.200B	---	---	30
31	---		0.183B		8.01		1.85	1.65		0.210B		---	31
TOTAL	---	---	5.336	10.968	44.712	134.26	128.93	41.26	42.75	17.925	---	---	TOTAL
MEAN	---	---	0.172	0.366	1.44	4.48	4.16	1.33	1.43	0.578	---	---	MEAN
MAX	---	---	0.187	0.562	8.01	8.81	17.4	1.78	1.93	1.14	---	---	MAX
MIN	---	---	0.160	0.190	0.467	2.10	1.73	1.02	1.11	0.200	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.74
MAXIMUM DAILY, 17.4 ON JUL 07
MINIMUM DAILY, 0.160B ON MAR 22
MAXIMUM INSTANTANEOUS, 23.7 AT 22:50 MST ON JUL 06

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 40 43 N
LONG 118 14 19 W
DRAINAGE AREA, 94 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	11 100
FEB	---	AUG	3 560
MAR	461	SEP	3 690
APR	948	OCT	1 550
MAY	3 860	NOV	---
JUN	11 600	DEC	---

TOTAL DISCHARGE, 36 800 dam³

LITTLE BOW CANAL AT HIGH RIVER - STATION NO. 05BL015

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.487B	0.450B	0.766B	0.624	1.13	1.38	2.70	2.12	0.817	0.520	0.571	0.580B	1
2	0.496B	0.485B	0.776B	0.634	1.32	1.34	2.65	1.85	0.791	0.534	0.569	0.631B	2
3	0.498B	0.540B	0.770B	0.648	1.29	1.29	2.70	1.57	0.765	0.548	0.431B	0.645B	3
4	0.496B	0.545B	0.765B	0.651	1.33	1.27	2.66	1.56	0.743	0.552	0.451B	0.640B	4
5	0.547B	0.540B	0.773B	0.634	1.38	1.21	2.65	1.53	0.788	0.689	0.429B	0.620B	5
6	0.582B	0.545B	0.760B	0.626	1.39	1.19	2.68	1.52	0.624	0.897	0.411B	0.599B	6
7	0.595B	0.538B	0.742B	0.633	1.29	1.25	2.70	1.36	0.494	0.768	0.703B	0.584B	7
8	0.604B	0.531B	0.735B	0.645	1.28	1.24	2.68	1.23	0.477	0.600	0.680B	0.600B	8
9	0.612B	0.551B	0.674B	0.644	1.28	1.21	2.63	1.22	0.474	0.588	0.500B	0.659B	9
10	0.619B	0.553B	0.649B	0.583	1.29	1.21	2.65	1.18	0.458	0.589	0.480B	0.720B	10
11	0.613B	0.548B	0.638B	0.554	1.28	1.23	2.65	0.904	0.459	0.597	0.325B	0.700B	11
12	0.623B	0.574B	0.666B	0.555	1.29	1.21	2.74	0.815	0.534	0.578	0.330B	0.600B	12
13	0.616B	0.559B	0.613B	0.558	1.30	1.20	2.72	0.795	0.498	0.572	0.570B	0.566B	13
14	0.593B	0.542B	0.596B	0.556	1.29	1.22	2.69	0.814	0.316	0.563	0.560B	0.499B	14
15	0.556B	0.530B	0.666B	0.559	1.30	1.21	2.66	0.933	0.314	0.551	0.610B	0.500B	15
16	0.551B	0.545B	0.732B	0.560	1.31	1.27	2.67	1.09	0.307	0.605	0.610B	0.560B	16
17	0.536B	0.550B	0.780B	0.572	1.30	1.27	2.71	1.19	0.306	0.603	0.585B	0.593B	17
18	0.533B	0.590B	0.819B	0.585	1.30	1.26	2.63	1.21	0.295	0.590	0.555B	0.570B	18
19	0.519B	0.690B	0.715	0.590	1.32	1.26	2.60	1.22	0.287	0.575	0.513B	0.555B	19
20	0.534B	0.737B	0.599	0.603	1.32	1.27	2.47	1.22	0.311	0.560	0.540B	0.453B	20
21	0.542B	0.701B	0.605	0.616	1.33	1.27	2.39	1.22	0.308	0.562	0.550B	0.425B	21
22	0.507B	0.600B	0.786B	0.632	1.33	1.35	2.34	1.20	0.373	0.558	0.569B	0.490B	22
23	0.493B	0.723B	0.707B	0.633	1.34	1.52	2.28	1.13	0.460	0.548	0.472B	0.535B	23
24	0.476B	0.660B	0.682B	0.636	1.34	1.35	2.47	1.15	0.462	0.546	0.183B	0.535B	24
25	0.511B	0.702B	0.607	0.632	1.26	1.96	2.66	1.13	0.457	0.565	0.245B	0.555B	25
26	0.490B	0.718B	0.578	0.629	1.22	2.30	2.77	1.13	0.547	0.581	0.240B	0.570B	26
27	0.460B	0.739B	0.580	0.627	1.15	2.38	2.62	1.12	0.603	0.594	0.475B	0.560B	27
28	0.465B	0.737B	0.594	0.626	1.18	2.29	2.62	1.10	0.560	0.591	0.698B	0.530B	28
29	0.455B		0.595	0.619	1.30	2.43	2.62	1.11	0.515	0.602	0.604B	0.465B	29
30	0.440B		0.634	0.612	1.50	2.69	2.40	1.04	0.517	0.567	0.579B	0.420B	30
31	0.445B		0.632		1.50		2.21	0.837		0.564		0.430B	31
TOTAL	16.496	16.723	21.234	18.278	40.44	44.73	80.62	37.518	14.860	18.357	15.038	17.389	TOTAL
MEAN	0.532	0.597	0.685	0.609	1.30	1.49	2.60	1.21	0.495	0.592	0.501	0.561	MEAN
MAX	0.623	0.739	0.819	0.651	1.50	2.69	2.77	2.12	0.817	0.897	0.703	0.720	MAX
MIN	0.440	0.450	0.578	0.554	1.13	1.19	2.21	0.795	0.287	0.520	0.183	0.420	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.936
MAXIMUM DAILY, 2.77 ON JUL 26
MINIMUM DAILY, 0.183B ON NOV 24

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 34 59 N
LONG 113 52 18 W

B - ICE CONDITIONS

REGULATED SINCE 1910

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 430	JUL	6 970
FEB	1 440	AUG	3 240
MAR	1 830	SEP	1 260
APR	1 580	OCT	1 590
MAY	3 490	NOV	1 300
JUN	3 860	DEC	1 500

TOTAL DISCHARGE, 29 500 dam³

LITTLE BOW RESERVOIR NEAR ENCHANT - STATION NO. 05AC922

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	852.714	852.813	852.680	852.949	852.706	852.738	---	---	1
2	---	---	---	---	852.713	852.806	852.695	852.944	852.765	852.749	---	---	2
3	---	---	---	---	852.711	852.836	852.682	852.941	852.748	852.772	---	---	3
4	---	---	---	---	852.711	852.815A	852.679	852.940	852.742	852.791A	---	---	4
5	---	---	---	---	852.711	852.821	852.722	852.950	852.715A	852.789A	852.760A	---	5
6	---	---	---	---	852.713	852.823	852.756	852.955A	852.686	852.843A	---	---	6
7	---	---	---	---	852.697	852.824	852.742	852.949A	852.675	852.817A	---	---	7
8	---	---	---	---	852.691	852.788	852.748	852.943A	852.653	852.805	---	---	8
9	---	---	---	---	852.690	852.740	852.757	852.938A	852.649	852.816	---	---	9
10	---	---	---	---	852.678	852.678	852.752	852.936A	852.645	852.814	---	---	10
11	---	---	---	---	852.679	852.666	852.726	852.918A	852.642	852.817	---	---	11
12	---	---	---	---	852.725	852.653	852.725	852.888	852.634	852.820	---	---	12
13	---	---	---	---	852.751	852.581	852.730	852.891	852.652	852.805	---	---	13
14	---	---	---	---	852.763	852.630	852.717	852.927	852.648	852.799	---	---	14
15	---	---	---	---	852.762	852.678	852.727	852.940	852.652	852.796	---	---	15
16	---	---	---	---	852.764	852.710	852.723	852.931	852.659	852.796	---	---	16
17	---	---	---	---	852.747	852.712	852.717	852.922	852.654	852.802	---	---	17
18	---	---	---	---	852.696	852.739	852.715	852.916	852.661	852.803	---	---	18
19	---	---	---	852.717	852.700	852.730	852.750	852.912	852.663A	852.793	---	---	19
20	---	---	---	852.745A	852.697	852.759	852.813	852.909	852.667	852.793	---	---	20
21	---	---	---	852.715	852.684	852.776	852.798	852.911	852.663	852.907	---	---	21
22	---	---	---	852.713	852.691	852.769	852.785	852.904	852.670	852.788A	---	---	22
23	---	---	---	852.713	852.710	852.721	852.770A	852.890	852.671	---	---	---	23
24	---	---	---	852.711	852.743	852.679	852.810	852.891	852.660	---	---	---	24
25	---	---	---	852.709	852.778	852.662	852.823	852.872	852.671	---	---	---	25
26	---	---	---	852.729	852.806	852.598	852.852	852.865	852.701E	---	---	---	26
27	---	---	---	852.707	852.802	852.599	852.836	852.859	852.731A	---	---	---	27
28	---	---	---	852.710	852.802	852.572	852.893	852.856	852.719A	---	---	---	28
29	---	---	---	852.738	852.811	852.589	852.950	852.849	852.717A	---	---	---	29
30	---	---	---	852.718	852.827	852.663	852.969	852.850	852.720E	---	---	---	30
31	---	---	---		852.808		852.959	852.812		---	---	---	31
MEAN	---	---	---	---	852.735	852.712	852.774	852.909	852.685	---	---	---	MEAN
MAX	---	---	---	---	852.827	852.836	852.969	852.963	852.786	---	---	---	MAX
MIN	---	---	---	---	852.678	852.553	852.662	852.812	852.637	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 12 22 N
LONG 112 41 15 W
DATA CONTRIBUTED BY -
ALBERTA DEPARTMENT OF THE ENVIRONMENT

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

REMARKS - DAILY MEAN WATER LEVELS ARE DERIVED FROM DATA STORED IN HANDAR 560 TELEMETRY DEVICE

LITTLE BOW RIVER AT CARMANGAY - STATION NO. 05AC003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.550B	0.390B	2.21 B	1.03 B	1.04	2.91	1.20	2.23	1.11	0.593	0.794	0.341	1
2	0.540B	0.420B	2.55 B	1.18 B	0.993	3.16	1.11	3.08	1.09	0.777	0.728	0.310	2
3	0.535B	0.460B	2.15 B	1.22	0.874	3.24	1.38	2.77	1.18	0.697	0.558	0.362	3
4	0.495B	0.520B	2.26 B	1.23	1.09	2.96	1.80	2.82	1.13	0.668	0.580	0.579	4
5	0.514B	0.575B	1.96 B	1.17	1.45	2.64	1.71	2.81	0.932	0.627	0.619	0.570	5
6	0.553B	0.542B	1.83 B	1.18	1.09	2.85	1.70	2.20	0.891	0.618	0.529	0.599	6
7	0.549B	0.651B	1.78 B	1.15	1.06	2.69	2.23	1.79	0.961	0.654	0.711	0.635	7
8	0.563B	0.575B	1.82 B	1.06	1.18	2.43	3.07	1.47	0.832	0.768	0.607	0.666	8
9	0.591B	0.579B	1.46 B	1.09	1.41	1.95	2.45	1.01	0.715	0.887	0.648	0.729	9
10	0.651B	0.671B	1.64 B	0.912	1.67	1.72	2.95	0.768	1.01	1.05	0.697	0.726	10
11	0.649B	0.691B	1.70 B	1.08	1.55	1.81	2.15	0.844	0.960	0.930	0.744	0.747	11
12	0.629B	0.535B	1.09 B	1.07	1.39	1.67	1.44	0.774	0.723	0.871	0.614	0.761	12
13	0.686B	0.597B	1.13 B	1.06	1.55	1.82	1.20	0.862	0.722	0.864	0.784	0.740B	13
14	0.710B	0.580B	1.30 B	0.955	1.56	1.96	1.17	0.929	0.904	0.842	0.879	0.552B	14
15	0.625B	0.560B	1.23 B	0.932	1.39	1.93	0.904	0.883	0.849	0.826	0.555	0.598B	15
16	0.632B	0.530B	1.51 B	0.885	1.31	1.92	0.899	0.798	0.870	0.834	0.415	0.583B	16
17	0.675B	0.500B	1.42 B	0.842	1.12	1.76	0.875	0.731	0.946	0.806	0.854	0.645B	17
18	0.692B	0.540B	1.57 B	0.876	1.10	1.63	0.895	0.723	0.930	0.807	0.701	0.746B	18
19	0.623B	0.600B	1.78 B	0.869	1.62	1.52	1.47	0.730	0.750	0.870	0.624	0.680B	19
20	0.639B	0.650B	1.99 B	0.808	1.86	1.30	3.08	0.795	0.592	0.940	0.650	0.600B	20
21	0.694B	0.819B	1.52 B	0.765	1.90	1.06	3.19	1.03	0.461	0.892	0.587	0.520B	21
22	0.666B	0.788B	1.11 B	0.741	1.84	0.884	3.43	1.09	0.456	0.863	0.530	0.456B	22
23	0.666B	0.711B	1.05 B	0.726	1.70	0.656	2.66	1.18	0.409	0.868	0.467	0.238B	23
24	0.644B	0.971B	1.00 B	0.730	1.78	0.588	1.91	1.19	0.367	0.803	0.490	0.167B	24
25	0.654B	1.81 B	0.943B	0.739	2.26	0.689	1.61	1.40	0.422	0.777	0.407	0.113B	25
26	0.662B	2.03 B	0.907B	0.780	2.57	0.493	2.54	1.53	0.365	0.809	0.386	0.201B	26
27	0.659B	2.14 B	0.798B	0.827	2.86	0.526	2.63	1.61	0.379	0.749	0.370B	0.105B	27
28	0.540B	2.65 B	0.844B	0.927	2.48	0.704	2.67	1.60	0.376	0.771	0.390B	0.126B	28
29	0.480B		0.822B	1.02	2.92	1.28	2.67	1.64	0.483	0.775	0.420B	0.042B	29
30	0.430B		1.07 B	1.03	3.17	1.33	2.71	1.58	0.498	0.778	0.413	0.024B	30
31	0.410B		0.945B		3.17		2.27	1.28		0.798		0.035B	31
TOTAL	18.614	23.085	45.219	28.880	53.287	52.080	62.813	44.147	22.313	24.814	17.751	14.196	TOTAL
MEAN	0.601	0.825	1.46	0.963	1.72	1.74	2.03	1.42	0.744	0.801	0.592	0.458	MEAN
MAX	0.710	2.65	2.55	1.23	3.17	3.24	3.43	3.08	1.18	1.05	0.879	0.761	MAX
MIN	0.410	0.390	0.798	0.726	0.874	0.493	0.875	0.723	0.365	0.593	0.370	0.024	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.12
MAXIMUM DAILY, 3.43 ON JUL 09
MINIMUM DAILY, 0.024B ON DEC 30
MAXIMUM INSTANTANEOUS,
5.03 AT 14:46 MST ON FEB 28

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 07 39 N
LONG 113 07 02 W
DRAINAGE AREA, 2 760 km²

B - ICE CONDITIONS

REGULATED SINCE 1910

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 610	JUL	5 430
FEB	1 990	AUG	3 810
MAR	3 910	SEP	1 930
APR	2 500	OCT	2 140
MAY	4 600	NOV	1 530
JUN	4 500	DEC	1 230

TOTAL DISCHARGE, 35 200 dam³

LITTLE BOW RIVER BELOW TRAVERS DAM - STATION NO. 05AC012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.590	0.767	0.824	0.654	0.596	0.275	0.296	---	---	1
2	---	---	---	0.582	0.770	0.839	0.656	0.575	0.254	0.293	---	---	2
3	0.626B	---	---	0.578	0.832	0.800	0.674	0.566	0.290	0.306	---	---	3
4	---	---	---	0.573	0.780	0.780	0.728	0.559	0.297	0.302	---	---	4
5	---	---	0.592B	0.570	0.774	0.784	0.734	0.550	0.296	0.292	---	---	5
6	---	---	---	0.569	0.764	0.786	0.713	0.578	0.327	0.296	---	---	6
7	---	---	---	0.572	0.726	0.783	0.719	0.524	0.307	0.305	---	---	7
8	---	---	---	0.569	0.713	0.769	0.714	0.498	0.288	0.308	---	---	8
9	---	---	---	0.580B	0.709	0.770	0.742	0.530	0.316	0.288	---	---	9
10	---	---	---	0.580B	0.653	0.773	0.748	0.574	0.337	0.289	---	---	10
11	---	---	---	0.613	0.672	0.731	0.647	0.503	0.331	0.281	---	---	11
12	---	---	---	0.600	0.715	0.752	0.663	0.527	0.313	0.287	---	---	12
13	---	0.628B	0.619B	0.589	0.713	0.757	0.623	0.544	0.361	0.286	---	---	13
14	---	---	---	0.590	0.685	0.734	0.658	0.491	0.339	0.286	---	---	14
15	---	---	---	0.627	0.630	0.743	0.685	0.520	0.293	0.291	---	---	15
16	---	---	---	0.654	0.634	0.745	0.775	0.534	0.289	0.305	---	---	16
17	---	---	---	0.654	0.648	0.742	0.727	0.541	0.306	0.302	---	0.267B	17
18	---	---	---	0.659	0.722	0.696	0.627	0.399	0.311	0.294	---	---	18
19	---	---	---	0.678	0.798	0.643	0.656	0.379	0.296	0.290	---	---	19
20	---	---	---	0.723	0.767	0.668	0.655	0.367	0.340	0.291	---	---	20
21	---	---	---	0.771	0.754	0.685	0.617	0.355	0.334	0.287	---	---	21
22	---	---	---	0.822	0.758	0.644	0.672	0.354	0.326	0.284	---	---	22
23	0.592B	---	---	0.870	0.783	0.639	0.698	0.349	0.326	0.280	---	---	23
24	---	---	---	0.931	0.822	0.644	0.674	0.344	0.316	0.273	---	---	24
25	---	---	---	0.950	0.848	0.657	0.696	0.338	0.313	0.271	---	---	25
26	---	---	0.764B	0.976	0.827	0.653	0.679	0.356	0.302	0.271	0.336B	---	26
27	---	---	0.627	0.926	0.818	0.712	0.671	0.342	0.289	0.269	---	---	27
28	---	0.636B	0.627	0.905	0.828	0.711	0.667	0.337	0.279	0.276	---	---	28
29	---		0.619	0.890	0.846	0.673	0.661	0.340	0.278	0.268A	---	---	29
30	---		0.611	0.777	0.845	0.684	0.660	0.325	0.319	0.270E	---	---	30
31	---		0.599		0.841		0.627	0.298		0.270E		---	31
TOTAL	---	---	---	20.904	23.440	21.821	21.100	14.093	9.248	8.907	---	---	TOTAL
MEAN	---	---	---	0.697	0.756	0.727	0.681	0.455	0.308	0.287	---	---	MEAN
MAX	---	---	---	0.976	0.848	0.839	0.775	0.596	0.361	0.308	---	---	MAX
MIN	---	---	---	0.569	0.630	0.639	0.617	0.298	0.254	0.268	---	---	MIN

SUMMARY FOR THE MONTHS APR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.558
MAXIMUM DAILY, 0.976 ON APR 26
MINIMUM DAILY, 0.254 ON SEP 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 08 04 N
LONG 112 40 14 W
DRAINAGE AREA 5 370 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 820
FEB	---	AUG	1 220
MAR	---	SEP	799
APR	1 810	OCT	770
MAY	2 030	NOV	---
JUN	1 890	DEC	---

TOTAL DISCHARGE, 10 300 dam³

LITTLE BOW RIVER NEAR THE MOUTH - STATION NO. 05AC023

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.840	2.75	0.357	1.30	0.653	0.960	---	---	1
2	---	---	---	---	0.809	2.33	0.491	1.19	0.663	1.03	---	---	2
3	---	---	---	---	0.795	2.24	0.573	1.29	0.658	0.917	---	---	3
4	---	---	---	---	0.769	2.15	0.717	1.40	0.738	1.13	---	---	4
5	---	---	---	---	0.930	1.80	0.717	1.00	0.646	1.60	---	---	5
6	---	---	---	---	1.08	1.70	0.797	0.894	0.685	1.62	---	---	6
7	---	---	---	---	1.19	1.31	0.802	1.08	1.01	1.64	---	---	7
8	---	---	---	---	1.21	1.05	0.745	1.01	0.762	1.73	---	---	8
9	---	---	---	---	1.33	0.977	0.753	0.910	0.747	1.62	---	---	9
10	---	---	---	---	1.34	0.963	0.807	1.17	0.894	1.52	---	---	10
11	---	---	---	---	1.06	0.976	0.603	1.06	0.848	1.27	---	---	11
12	---	---	---	---	0.999	0.930	0.428	1.16	0.933	1.49	---	---	12
13	---	---	---	---	0.972	1.07	0.505	1.30	1.12	1.51	---	---	13
14	---	---	---	---	0.963	1.13	0.550	1.37	1.17	1.49	---	---	14
15	---	---	---	---	0.929	1.20	0.389	1.49	1.55	1.56	---	---	15
16	---	---	---	---	0.880	0.939	0.496	1.07	1.53	1.67	---	---	16
17	---	---	---	---	0.915	0.902	0.544	0.900	1.59	1.53	---	---	17
18	---	---	---	0.832A	0.956	0.917	0.839	0.800	1.08	1.02	---	---	18
19	---	---	---	0.811	0.872	0.962	1.17	1.05	1.09	0.776	---	---	19
20	---	---	---	0.800	1.03	0.945	1.12	1.06	0.854	0.547	---	---	20
21	---	---	---	0.822	1.09	0.923	1.09	1.04	0.872	0.458	---	---	21
22	---	---	---	0.825	1.17	0.953	1.10	0.852	0.884	0.476	---	---	22
23	---	---	---	0.837	1.23	0.743	1.16	1.14	0.868	0.404	---	---	23
24	---	---	---	0.849	1.40	0.696	1.44	1.07	0.937	0.412	---	---	24
25	---	---	---	0.878	3.81	1.06	1.62	0.818	0.982	0.401	---	---	25
26	---	---	---	0.927	3.58	0.769	1.69	0.864	0.858	0.372	---	---	26
27	---	---	---	1.04	2.65	0.644	1.80	1.18	0.713	0.364	---	---	27
28	---	---	---	1.04	1.92	0.597	1.71	1.25	0.633	0.352	---	---	28
29	---	---	---	1.02	1.65	0.506	1.47	1.15	0.445	0.347	---	---	29
30	---		---	0.929	2.56	0.378	1.23	0.908	0.682	0.350	---	---	30
31	---		---		3.34		1.54	0.744		0.360A		---	31
TOTAL	---	---	---	---	44.269	34.508	29.253	33.520	27.195	30.727	---	---	TOTAL
MEAN	---	---	---	---	1.43	1.15	0.944	1.08	0.907	0.991	---	---	MEAN
MAX	---	---	---	---	3.81	2.75	1.80	1.49	1.59	1.73	---	---	MAX
MIN	---	---	---	---	0.769	0.378	0.350	0.744	0.445	0.347	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.08
MAXIMUM DAILY, 3.81 ON MAY 25
MINIMUM DAILY, 0.347 ON OCT 29

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 54 00 N
LONG 112 30 20 W
DRAINAGE AREA, 5 920 km²
A - MANUAL GAUGE

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2 530
FEB	---	AUG	2 900
MAR	---	SEP	2 350
APR	---	OCT	2 650
MAY	3 820	NOV	---
JUN	2 980	DEC	---

TOTAL DISCHARGE, 17 200 dam³

LITTLE ELBOW RIVER ABOVE NIHAHI CREEK - STATION NO. 05BJ009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	1.18	14.1	6.20E	4.57	2.66	1.72	1.52	---	1
2	---	---	---	---	1.20	12.9	5.80E	4.19	2.59	1.71	1.50A	---	2
3	---	---	---	---	1.19	12.0 A	6.20E	3.88	2.55	1.72	---	---	3
4	---	---	---	---	1.23A	10.5 E	5.80E	3.62	2.43	1.86	---	---	4
5	---	---	---	---	1.33E	9.20E	5.30E	3.41	2.41	2.07	---	---	5
6	---	---	---	---	1.44E	7.13A	5.40E	3.35	2.28	1.88	---	---	6
7	---	---	---	---	1.60E	6.88	5.90E	3.26	2.10	1.81	---	---	7
8	---	---	---	---	1.50E	5.85	6.00E	3.14	2.26	1.85	---	---	8
9	---	---	---	---	1.35E	6.37	5.70E	3.17	2.16	1.85	---	---	9
10	---	---	---	---	1.32E	9.83	5.40E	3.17	2.08	1.90	---	---	10
11	---	---	---	---	1.31E	10.3	5.22A	3.19	2.04	1.85	---	---	11
12	---	---	---	---	1.30E	7.06	5.53	3.22	2.06	1.78	---	---	12
13	---	---	---	---	1.31E	5.79	5.63	3.20	2.03	1.80	---	---	13
14	---	---	---	---	1.32E	5.26	5.04	3.10	1.96	1.81	---	---	14
15	---	---	---	---	1.30E	5.96	4.48	3.01	1.84	1.76	---	---	15
16	---	---	---	---	1.38E	7.02	4.21	2.93	1.82	1.77	---	---	16
17	---	---	---	---	1.54A	8.26	4.02	3.02	1.83	1.74	---	---	17
18	---	---	---	---	1.65	8.13	3.81	3.09	1.79	1.70	---	---	18
19	---	---	---	---	1.64	8.24	3.60	3.28	1.77	1.68	---	---	19
20	---	---	---	1.12A	1.69	8.40	3.42	3.11	1.76	1.66	---	---	20
21	---	---	---	1.15	1.75	8.15A	3.18	3.14	1.89A	1.63	---	---	21
22	---	---	---	1.16	1.79	9.40E	3.05	3.44	1.89	1.63	---	---	22
23	---	---	---	1.16	2.24	11.0 E	3.02	3.23	1.86	1.60	---	---	23
24	---	---	---	1.16	4.91	10.4 E	3.16	3.10	1.83	1.59	---	---	24
25	---	---	---	1.17	25.4	9.70E	9.20	3.26	1.81	1.62	---	---	25
26	---	---	---	1.18	27.0	9.10E	10.7	3.32	1.79	1.63	---	---	26
27	---	---	---	1.19	14.5	8.00E	8.19	3.18	1.76	1.58	---	---	27
28	---	---	---	1.18	11.0	6.90E	6.76	3.04	1.77	1.58	---	---	28
29	---	---	---	1.18	16.3	6.00E	6.06	2.87	1.76	1.56	---	---	29
30	---		---	1.17	17.0	6.10E	5.48	2.84	1.76	1.55	---	---	30
31	---		---		13.0		4.90	2.79		1.56		---	31
TOTAL	---	---	---	---	162.67	253.93	166.36	101.12	60.73	53.45	---	---	TOTAL
MEAN	---	---	---	---	5.25	8.46	5.37	3.26	2.02	1.72	---	---	MEAN
MAX	---	---	---	---	27.0	14.1	10.7	4.57	2.66	2.07	---	---	MAX
MIN	---	---	---	---	1.18	5.26	3.02	2.79	1.76	1.55	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.34
MAXIMUM DAILY, 27.0 ON MAY 26
MINIMUM DAILY, 1.18 ON MAY 01
MAXIMUM INSTANTANEOUS,
38.6 AT 21:59 MST ON MAY 25

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 47 42 N
LONG 114 55 00 W
DRAINAGE AREA, 129 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	14 400
FEB	---	AUG	8 740
MAR	---	SEP	5 250
APR	---	OCT	4 620
MAY	14 100	NOV	---
JUN	21 900	DEC	---

TOTAL DISCHARGE, 69 000 dam³

LITTLE PADDLE RIVER NEAR MAYERTHORPE - STATION NO. 07BB005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.400B	0.895B	0.661	0.660	0.175	0.057	0.181	0.006	0.068A	---	1
2	---	---	0.600B	0.740B	0.690	0.585	0.265	0.036	0.080	0.006	---	---	2
3	---	---	0.900B	0.756B	0.720	0.524	14.0	0.024	0.053	0.006	---	---	3
4	---	---	1.00 B	0.688B	0.698	0.500	48.0	0.020	0.016	0.009	---	---	4
5	---	---	1.04 B	0.727B	0.737	0.695	13.9	0.016	0.032	0.042	---	---	5
6	---	---	1.08 B	0.581B	0.640	0.886	5.99	0.013	0.070	0.064	---	---	6
7	---	---	0.877B	0.513B	0.628	0.649	5.34	0.016	0.071	0.115	---	---	7
8	---	---	0.783B	0.368B	0.753	0.554	3.67	0.019	0.038	0.121	---	---	8
9	---	---	0.640B	0.382B	0.813	0.485	2.40	0.024	0.010	0.114	---	---	9
10	---	---	0.595B	0.321B	0.732	0.451	1.82	0.022	0.019	0.153	---	---	10
11	---	---	0.540B	0.292B	0.676	0.445	1.25	0.040	0.055	0.176	---	---	11
12	---	---	0.505B	0.322B	0.634	1.97	0.914	0.059	0.106	0.160	---	---	12
13	---	---	0.480B	0.429B	0.590	4.82	0.707	0.072	0.148	0.127	---	---	13
14	---	---	0.540B	0.636B	0.566	3.99	0.562	0.075	0.199	0.125	---	---	14
15	---	---	0.620B	0.845B	0.569	1.76	0.464	0.070	0.184	0.119	---	---	15
16	---	---	0.620B	0.766B	0.581	1.11	0.400	0.072	0.147	0.105	---	---	16
17	---	---	0.780B	0.871B	0.524	0.772	0.346	0.073	0.196	0.099	---	---	17
18	---	---	0.840B	1.02 B	0.486	0.818	0.329	0.068	0.332	0.087	---	---	18
19	---	---	0.900B	1.23	0.487	0.627	0.295	0.065	0.237	0.071	---	---	19
20	---	---	0.924B	1.28	0.617	0.493	0.265	0.057	0.206	0.065	---	---	20
21	---	---	0.644B	1.29	0.847	0.411	0.239	0.048	0.166	0.068	---	---	21
22	---	---	0.430B	1.10	0.950	0.352	0.208	0.050	0.164	0.057	---	---	22
23	---	---	0.280B	0.999	0.821	0.294	0.172	0.046	0.098	0.054	---	---	23
24	---	---	0.213B	1.03	0.746	0.261	0.147	0.035	0.074	0.051	---	---	24
25	---	---	0.180B	1.06	0.955	0.244	0.148	0.023	0.035	0.035	---	---	25
26	---	---	0.144B	1.07	1.52	0.210	0.141	0.020	0.020	0.032	---	---	26
27	---	---	0.170B	0.851	1.04	0.191	0.118	0.010	0.012	0.043	---	---	27
28	---	---	0.202B	0.746	0.843	0.186	0.099	0.010	0.008	0.062	---	---	28
29	---	---	0.492B	0.703	0.696	0.176	0.078	0.010	0.010	0.069	---	---	29
30	---		0.820B	0.660	0.610	0.184	0.069	0.010	0.020	0.071	---	---	30
31	---		1.08 B		0.603		0.074	0.037		0.067		---	31
TOTAL	---	---	19.399	23.171	22.433	25.303	102.583	1.197	2.995	2.382	---	---	TOTAL
MEAN	---	---	0.626	0.772	0.724	0.843	3.31	0.039	0.100	0.077	---	---	MEAN
MAX	---	---	1.08	1.29	1.52	4.82	48.0	0.075	0.332	0.176	---	---	MAX
MIN	---	---	0.144	0.292	0.486	0.176	0.069	0.010	0.008	0.006	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.814
MAXIMUM DAILY, 48.0 ON JUL 04
MINIMUM DAILY, 0.006 ON OCT 01
MAXIMUM INSTANTANEOUS,
68.5 AT 03:48 MST ON JUL 04

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 57 51 N
LONG 115 10 29 W
DRAINAGE AREA, 298 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	8 860
FEB	---	AUG	103
MAR	1 680	SEP	259
APR	2 000	OCT	206
MAY	1 940	NOV	---
JUN	2 190	DEC	---

TOTAL DISCHARGE, 17 200 dam³

LITTLE RED DEER RIVER NEAR THE MOUTH - STATION NO. 05CB001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.695B	0.015B	0.030B	27.1 B	4.72	39.2	7.17	5.73	5.74	2.07	2.02	0.997B	1
2	0.705B	0.020B	0.034B	19.5 B	4.78	64.8	6.78	6.50	5.17	2.11	2.13	0.945B	2
3	0.710B	0.025B	0.038B	17.9 B	7.54	116	12.4	8.03	4.74	2.11	2.44	0.909B	3
4	0.716B	0.025B	0.045B	16.0	14.1	99.4	21.3	8.14	4.44	2.05	2.50 B	0.945B	4
5	0.679B	0.023B	0.149B	12.0	11.8	67.3	17.1	7.10	4.26	2.07	2.47 B	0.972B	5
6	0.669B	0.022B	1.66 B	9.80	9.79	53.0	12.8	5.92	4.01	2.06	1.98 B	0.975B	6
7	0.663B	0.021B	2.02 B	8.52	8.31	46.7	11.7	5.07	3.85	2.12	2.34 B	0.968B	7
8	0.693B	0.021B	2.63 B	8.23	7.41	40.0	15.0	4.29	3.66	2.48	2.02 B	1.00 B	8
9	0.683B	0.020B	1.63 B	7.42	6.81	32.9	15.2	3.94	3.53	2.67	1.70 B	0.987B	9
10	0.608B	0.019B	3.21 B	6.33	6.54	27.4	11.9	3.65	3.34	2.63	1.54 B	0.998B	10
11	0.542B	0.018B	2.62 B	5.04	6.55	25.7	9.63	3.39	3.21	2.68	1.16 B	1.00 B	11
12	0.485B	0.018B	2.74 B	5.11	7.36	41.7	7.90	3.14	3.14	2.85	1.13 B	1.02 B	12
13	0.387B	0.015B	1.68 B	5.47	8.10	49.3	6.72	2.97	3.20	2.88	1.23 B	1.02 B	13
14	0.308B	0.010B	2.29 B	6.21	8.10	46.2	5.92	2.89	3.29	2.86	1.00 B	1.00 B	14
15	0.338B	0.008B	2.81 B	6.63	8.56	37.0	5.33	2.83	3.50	2.74	0.951B	0.995B	15
16	0.258B	0.008B	2.74 B	6.64	9.28	27.9	4.94	2.88	3.35	2.73B	1.05 B	0.990B	16
17	0.256B	0.010B	2.12 B	6.11	8.84	21.6	4.88	3.26	3.10	2.68B	1.10 B	0.992B	17
18	0.212B	0.014B	2.23 B	5.56	8.12	19.7	4.67	21.4	2.95	2.70B	1.02 B	0.947B	18
19	0.244B	0.018B	3.86 B	5.02	8.14	17.7	4.92	24.1	2.81	2.33	1.02 B	0.852B	19
20	0.255B	0.023B	5.50 B	4.68	8.49	15.1	5.82	32.6	2.73	2.36	0.869B	0.710B	20
21	0.260B	0.023B	6.60 B	4.55	9.19	15.4	6.81	18.5	2.64	2.20B	0.670B	0.583B	21
22	0.220B	0.023B	5.50 B	4.41	12.8	14.9	6.09	13.2	2.57	2.09B	0.730B	0.470B	22
23	0.197B	0.020B	4.60 B	4.93	11.1	12.7	5.47	11.8	2.48	2.28B	0.760B	0.495B	23
24	0.149B	0.020B	4.15 B	5.34	8.84	10.8	4.90	9.79	2.37	2.07B	0.800B	0.510B	24
25	0.095B	0.018B	3.58 B	5.16	10.5	10.1	4.94	8.55	2.34	2.01B	0.820B	0.520B	25
26	0.067B	0.020B	3.39 B	5.35	42.0	10.6	5.64	8.38	2.39	2.04	0.853B	0.505B	26
27	0.032B	0.023B	2.85 B	5.83	53.1	9.45	7.43	9.99	2.24	2.20	0.862B	0.490B	27
28	0.020B	0.025B	4.74 B	5.97	39.8	8.56	10.1	10.0	2.14	2.16	0.897B	0.450B	28
29	0.015B		8.76 B	5.62	29.4	8.12	8.52	8.42	2.11	2.15	0.962B	0.420B	29
30	0.010B		17.7 B	5.12	30.5	7.79	7.68	7.22	2.09	2.10	0.997B	0.385B	30
31	0.010B		29.0 B		39.2		6.49	6.33		2.05		0.350B	31
TOTAL	11.181	0.525	130.906	241.55	449.85	997.02	266.15	270.01	97.39	72.53	40.021	24.400	TOTAL
MEAN	0.361	0.019	4.22	8.05	14.5	33.2	8.59	8.71	3.25	2.34	1.33	0.787	MEAN
MAX	0.716	0.025	29.0	27.1	53.1	116	21.3	32.6	5.74	2.88	2.50	1.02	MAX
MIN	0.010	0.008	0.030	4.41	4.72	7.79	4.67	2.83	2.09	2.01	0.670	0.350	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 7.13
MAXIMUM DAILY, 116 ON JUN 03
MINIMUM DAILY, 0.008B ON FEB 15
MAXIMUM INSTANTANEOUS,
136 AT 00:23 MST ON JUN 04

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 01 40 N
LONG 114 08 20 W
DRAINAGE AREA, 2 560 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	966	JUL	23 000
FEB	45.3	AUG	23 300
MAR	11 300	SEP	8 410
APR	20 900	OCT	6 270
MAY	38 900	NOV	3 460
JUN	86 100	DEC	2 110

TOTAL DISCHARGE, 225 000 dam³

LITTLE RED DEER RIVER NEAR WATER VALLEY - STATION NO. 05CB002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.071B	4.97 B	1.56	24.0	2.55	4.96	2.70	1.03	0.901B	---	1
2	---	---	0.100B	4.15 B	6.29	83.1	2.68	5.77	2.59	1.05	---	---	2
3	---	---	0.112B	3.30 B	8.79	43.5	7.13	4.87	2.56	0.997	---	---	3
4	---	---	0.100B	2.30 B	5.99	27.7	4.75	3.78	2.35	1.01	---	---	4
5	---	---	0.079B	1.62 B	4.50	20.6	3.44	3.16	2.16	1.08	---	---	5
6	---	---	0.062B	2.20 B	3.63	18.4	3.10	2.71	2.01	1.11	---	---	6
7	---	---	0.055B	2.20 B	3.08	15.8	5.91	2.31	1.92	1.13	---	---	7
8	---	---	0.050B	1.25 B	2.76	13.0	5.16	2.10	1.76	1.18	---	---	8
9	---	---	0.060B	0.750B	2.95	10.7	3.57	1.95	1.70	1.23	---	---	9
10	---	---	0.150B	0.851B	3.27	9.75	2.95	1.82	1.71	1.29	---	---	10
11	---	---	0.120B	1.14 B	4.20	9.53	2.55	1.70	1.65	1.32	---	---	11
12	---	---	0.200B	1.45 B	4.35	8.52	2.20	1.64	1.67	1.28	---	---	12
13	---	---	0.381B	1.76 B	4.35	8.82	2.00	1.65	2.10	1.21	---	---	13
14	---	---	0.305B	1.60 B	4.72	9.03	1.76	1.63	1.87	1.08 B	---	---	14
15	---	---	0.219B	1.40 B	5.32	7.16	1.57	1.57	1.67	1.05 B	---	---	15
16	---	---	0.206B	1.45 B	4.74	6.22	1.60	1.66	1.53	1.01 B	---	---	16
17	---	---	0.227B	1.58 B	4.80	7.01	1.74	24.6	1.44	1.04 B	---	---	17
18	---	---	0.294B	1.76 B	5.61	5.90	1.77	18.0	1.38	1.02 B	---	---	18
19	---	---	0.505B	1.92	5.71	4.96	3.01	21.5	1.40	0.970B	---	---	19
20	---	---	0.470B	1.92	5.25	4.91	2.81	10.5	1.36	0.940B	---	---	20
21	---	0.075B	0.390B	1.78	4.82	5.44	2.35	7.41	1.30	1.04 B	---	---	21
22	---	0.082B	0.330B	1.59	4.33	4.31	1.94	6.27	1.24	0.900B	---	---	22
23	---	0.079B	0.280B	1.54	3.77	3.71	1.65	5.39	1.24	0.800B	---	---	23
24	---	0.068B	0.250B	1.83	4.69	3.93	2.18	4.87	1.18	0.820B	---	---	24
25	---	0.073B	0.230B	1.90	40.2	4.46	2.75	4.85	1.15	0.864	---	---	25
26	---	0.083B	0.233B	1.79	41.8	3.46	6.11	6.60	1.12	0.935	---	---	26
27	---	0.077B	0.308B	1.61	26.8	3.14	5.79	5.44	1.07	0.924	---	---	27
28	---	0.070B	0.492B	1.44	19.2	3.18	4.57	4.25	1.07	0.902	---	---	28
29	---		0.794B	1.21	18.2	2.98	3.90	3.61	1.03	0.870B	---	---	29
30	---		2.25 B	1.05	19.5	2.68	3.22	3.28	1.03	0.915B	---	---	30
31	---		3.75 B		20.4		3.13	2.94		0.910B		---	31
TOTAL	---	---	13.073	55.311	295.58	375.90	99.84	172.79	48.96	31.907	---	---	TOTAL
MEAN	---	---	0.422	1.84	9.53	12.5	3.22	5.57	1.63	1.03	---	---	MEAN
MAX	---	---	3.75	4.97	41.8	83.1	7.13	24.6	2.70	1.32	---	---	MAX
MIN	---	---	0.050	0.750	1.56	2.68	1.57	1.57	1.03	0.800	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.46
MAXIMUM DAILY, 83.1 ON JUN 02
MINIMUM DAILY, 0.050B ON MAR 08
MAXIMUM INSTANTANEOUS,
120 AT 12:24 MST ON JUN 02

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 30 41 N
LONG 114 40 19 W
DRAINAGE AREA, 449 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	8 630
FEB	---	AUG	14 900
MAR	1 130	SEP	4 230
APR	4 780	OCT	2 760
MAY	25 500	NOV	---
JUN	32 500	DEC	---

TOTAL DISCHARGE, 94 400 dam³

LITTLE SMOKY RIVER AT LITTLE SMOKY - STATION NO. 07GG002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	2.90B	7.73B	19.5	88.7	22.0	7.61	6.40E	4.75	---	---	1
2	---	---	3.05B	9.02B	20.4	103	21.0	7.22	7.40E	4.68	---	---	2
3	---	---	3.10B	9.90B	21.1	84.7	27.1	6.94	8.90E	4.66	---	---	3
4	---	---	3.28B	10.6 B	21.0	68.5	80.4	6.76	10.1 E	4.59	---	---	4
5	---	---	3.40B	10.9 B	21.1	78.6	102	6.47	9.40E	4.76	---	---	5
6	---	---	3.48B	11.3 B	20.7	100	92.3	6.10	8.30E	4.97	---	---	6
7	---	---	3.60B	10.7 B	20.7	88.9	90.6	6.00	7.30E	5.06	---	---	7
8	---	---	3.65B	10.6 B	21.7	71.9	87.8	5.75	6.70E	5.05	---	---	8
9	---	---	3.75B	10.2 B	23.5	61.6	73.8	5.43	6.30E	5.14	---	---	9
10	---	---	3.55B	9.16B	24.1	52.7	59.5	5.21	5.90E	5.37	---	---	10
11	---	---	3.25B	8.36B	24.1	64.0	47.0	4.90	5.60E	5.77	---	---	11
12	---	---	3.15B	7.38B	23.8	215	37.4	4.71	5.40E	6.31	---	---	12
13	---	---	3.13B	7.48B	21.6	315	31.1	4.50	5.20E	6.70	---	---	13
14	---	---	3.43B	7.06B	24.5	285	25.8	4.32	4.90E	6.76	---	---	14
15	---	---	3.85B	9.02B	28.2	227	21.9	4.29	5.40E	6.61	---	---	15
16	---	---	4.13B	9.94B	29.1	184	19.4	5.50	5.20E	6.25	---	---	16
17	---	---	4.75B	11.9 B	28.4	131	17.9	6.33	5.00E	5.49	---	---	17
18	---	---	5.14B	13.0 B	27.1	100	16.7	6.52	5.30E	4.58	---	---	18
19	---	---	5.24B	16.2	26.5	78.6	15.2	8.64	5.90E	4.26	---	---	19
20	---	---	5.31B	18.5	28.2	63.7	14.1	10.7	7.60E	4.98	---	---	20
21	---	---	5.24B	20.4	31.6	53.2	12.9	9.64	11.0 E	5.34	---	---	21
22	---	---	4.65B	21.0	35.5	44.8	11.8	9.01	10.0 E	4.44	---	---	22
23	---	---	4.03B	22.0	39.1	39.6	10.8	7.52	8.80E	4.13	---	---	23
24	---	---	3.68B	22.7	39.2	37.1	9.84	6.69	7.30E	4.14	---	---	24
25	---	---	3.43B	25.4	39.5	34.5	9.18	6.03	6.82A	4.74	---	---	25
26	---	2.93B	3.40B	27.8	52.3	30.7	8.70	5.78	6.45	5.50	---	---	26
27	---	2.88B	3.46B	27.9	59.6	27.6	8.37	5.70	5.97	6.26	---	---	27
28	---	2.88B	3.70B	25.4	56.5	24.7	7.93	5.77A	5.48	6.56	---	---	28
29	---		4.05B	22.3	48.0	23.9	8.27	5.95E	5.18	6.32	---	---	29
30	---		5.00B	19.4	40.9	23.4	8.10	6.00E	4.90	5.64	---	---	30
31	---		6.40B		43.3		7.70	6.30E		5.42A		---	31
TOTAL	---	---	122.20	443.55	950.7	2 801.4	1 006.59	198.29	204.10	165.43	---	---	TOTAL
MEAN	---	---	3.94	14.8	31.0	93.4	32.5	6.40	6.80	5.34	---	---	MEAN
MAX	---	---	6.40	27.9	59.6	315	102	10.7	11.0	6.76	---	---	MAX
MIN	---	---	2.90	7.06	19.5	23.4	7.70	4.29	4.90	4.13	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 24.1
MAXIMUM DAILY, 315 ON JUN 13
MINIMUM DAILY, 2.90B ON MAR 01
MAXIMUM INSTANTANEOUS,
330 AT 16:00 MST ON JUN 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 44 24 N
LONG 117 10 46 W
DRAINAGE AREA, 3 010 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	87 000
FEB	---	AUG	17 100
MAR	10 600	SEP	17 600
APR	38 300	OCT	14 300
MAY	83 000	NOV	---
JUN	242 000	DEC	---

TOTAL DISCHARGE, 510 000 dam³

LITTLE SMOKY RIVER NEAR GUY - STATION NO. 07GH002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	14.5 B	9.08B	7.96B	47.1B	77.7	79.0	55.3	23.4	11.2	8.91	12.9	6.69B	1
2	14.2 B	8.97B	7.66B	52.1B	73.1	114	54.3	20.9	11.9	8.62	11.6	6.92B	2
3	14.0 B	8.77B	7.90B	55.1B	71.9	144	53.3	19.1	19.4	8.46	9.14	7.10B	3
4	13.6 B	8.59B	8.21B	53.7B	71.0	133	53.4	17.8	31.3	8.29	7.86B	6.79B	4
5	13.5 B	8.08B	8.42B	53.2B	69.7	116	101	17.3	27.7	8.60	7.26B	6.91B	5
6	13.1 B	7.74B	9.21B	47.8B	68.1	119	176	16.5	23.6	8.76	6.15B	6.69B	6
7	13.0 B	7.62B	10.4 B	47.8B	67.2	161	165	15.5	20.2	8.81	5.99B	6.61B	7
8	12.8 B	7.50B	11.9 B	50.6B	67.1	156	152	14.9	17.6	9.01	5.99B	6.42B	8
9	12.5 B	7.40B	12.4 B	56.2B	66.9	132	159	14.3	15.7	9.27	6.21B	6.25B	9
10	12.1 B	7.05B	13.5 B	52.4	66.3	114	141	13.2	14.0	10.2	6.05B	6.09B	10
11	12.3 B	6.93B	13.7 B	46.6	66.0	109	119	12.2	12.6	10.6	6.38B	5.99B	11
12	11.8 B	7.11B	12.7 B	42.4	64.2	219	98.8	11.6	11.3	10.3	6.15B	6.23B	12
13	11.8 B	7.12B	11.7 B	42.3	62.0	648 A	82.1	11.1	10.6	10.7	5.79B	6.23B	13
14	11.8 B	7.04B	11.1 B	39.6	59.4	727 A	70.0	10.6	10.0	11.7	6.15B	6.25B	14
15	11.4 B	7.12B	11.9 B	41.9	57.7	585 A	61.1	9.95	9.44	14.7	7.52B	6.36B	15
16	11.5 B	7.34B	13.3 B	42.1	59.6	459	53.9	9.67	9.16	14.8	7.79B	6.48B	16
17	11.3 B	7.30B	14.5 B	41.8	62.9	370 A	49.6	10.4	9.66	14.2	7.86B	6.29B	17
18	10.8 B	7.05B	16.3 B	42.7	62.5	287 A	45.2	10.7	9.15	13.6	7.33B	6.60B	18
19	10.7 B	6.86B	17.8 B	48.8	60.4	220 A	41.7	10.7	8.95	12.9	7.41B	6.51B	19
20	10.2 B	6.56B	17.4 B	55.3	59.2	174 A	38.8	11.1	9.33	11.9	7.41B	6.19B	20
21	9.89B	6.40B	16.8 B	69.4	59.0	148	36.4	11.4	10.0	10.9	7.16B	5.96B	21
22	9.64B	6.44B	15.9 B	80.6A	62.2	128	35.0	15.9	12.0 E	11.4	6.96B	5.82B	22
23	9.56B	6.75B	15.3 B	83.1E	69.3	111	33.6	15.9	14.5 E	12.9	6.93B	5.81B	23
24	9.58B	6.89B	14.9 B	85.5A	80.0	97.3	30.0	14.7	14.8 A	12.0	6.77B	6.08B	24
25	9.46B	6.87B	14.7 B	102 A	88.9	89.9	28.1	13.8	14.0 A	11.5	6.77B	6.05B	25
26	9.72B	7.44B	14.7 B	120	84.1	82.3	26.1	11.8	12.7 A	11.8	6.57B	5.62B	26
27	9.52B	7.76B	14.4 B	132	93.1	73.6	24.3	10.6	11.5	12.1	6.67B	5.83B	27
28	9.61B	8.03B	16.0 B	123	114	65.5	22.9	9.95	10.7	13.0	6.31B	5.65B	28
29	9.64B		19.7 B	105	108	61.2	21.8	10.1	9.62	13.0	6.67B	5.21B	29
30	9.44B		26.7 B	89.0	96.0	57.4	21.3	10.6	9.19	13.6	6.73B	5.08B	30
31	9.16B		39.1 B		84.5		23.4	11.9		13.8		5.26B	31
TOTAL	352.12	207.81	446.16	1 949.1	2 252.0	5 980.2	2 073.4	417.57	411.80	350.33	216.48	191.97	TOTAL
MEAN	11.4	7.42	14.4	65.0	72.6	199	66.9	13.5	13.7	11.3	7.22	6.19	MEAN
MAX	14.5	9.08	39.1	132	114	727	176	23.4	31.3	14.8	12.9	7.10	MAX
MIN	9.16	6.40	7.66	39.6	57.7	57.4	21.3	9.67	8.95	8.29	5.79	5.08	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 40.7
MAXIMUM DAILY, 727A ON JUN 14
MINIMUM DAILY, 5.08B ON DEC 30
MAXIMUM INSTANTANEOUS,
782 AT 01:00 MST ON JUN 14

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 27 25 N
LONG 117 09 40 W
DRAINAGE AREA, 11 100 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	30 400	JUL	179 000
FEB	18 000	AUG	36 100
MAR	38 500	SEP	35 600
APR	168 000	OCT	30 300
MAY	195 000	NOV	18 700
JUN	517 000	DEC	16 600

TOTAL DISCHARGE, 1 280 000 dam³

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARK

LLOYD CREEK NEAR BLUFFTON - STATION NO. 05CC009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.084B	9.84 B	1.22	2.14	0.962	0.442	0.172	0.168	---	---	1
2	---	---	0.084B	11.2 B	1.09	1.86	0.979	0.394	0.304	0.195	---	---	2
3	---	---	0.084B	8.58	0.987	1.56	24.8	0.355	0.408	0.199	---	---	3
4	---	---	0.084B	6.57	0.911	1.47	81.1 A	0.300	0.376	0.272	---	---	4
5	---	---	0.084B	4.11	0.836	1.73	58.4 A	0.303	0.314	0.467	---	---	5
6	---	---	0.105B	2.82	0.781	2.54	34.2	0.252	0.207	0.512	---	---	6
7	---	---	0.120B	2.14	0.777	2.75	19.5	0.214	0.172	0.521	---	---	7
8	---	---	0.120B	1.87	0.831	2.28	14.7	0.148	0.115	0.547	---	---	8
9	---	---	0.100B	1.55 A	1.04	1.82	11.0	0.223	0.083	0.577	---	---	9
10	---	---	0.084B	1.25	1.25	1.58	7.00	0.326	0.106	0.564	---	---	10
11	---	---	0.084B	1.09	1.19	1.72	3.96	0.280	0.100	0.571	---	---	11
12	---	---	0.084B	1.05	1.07	4.19	2.41	0.230	0.099	0.633	---	---	12
13	---	---	0.084B	1.02	0.934	12.5	1.81	0.170	0.092	0.858	---	---	13
14	---	---	0.084B	1.03	0.872	21.1	1.55	0.177	0.076	0.570	---	---	14
15	---	---	0.100B	1.08	0.841	17.2	1.38	0.193	0.079	0.490E	---	---	15
16	---	---	0.199B	1.09	0.784	10.8	1.15	0.273	0.098	0.400E	---	---	16
17	---	---	0.324B	1.01	0.734	5.90	0.745	0.315	0.281	0.330E	---	---	17
18	---	---	0.416B	0.964	0.730	3.02	0.583	0.299	0.217	0.300E	---	---	18
19	---	---	0.695B	0.931	0.720	2.04	0.896	0.279	0.222	0.320E	---	---	19
20	---	---	1.21 B	0.958	0.742	1.66	1.16	0.229	0.193	0.340E	---	---	20
21	---	---	1.49 B	0.958	0.879	1.35	1.16	0.164	0.165	0.370E	---	---	21
22	---	---	1.61 B	0.990	1.21	1.19	0.927	0.213	0.137	0.400E	---	---	22
23	---	---	1.06 B	0.956	1.49	1.02	0.792	0.225	0.147	0.370E	---	---	23
24	---	---	0.628B	1.32	1.56	0.902	0.682	0.231	0.129	0.420E	---	---	24
25	---	---	0.257B	2.31	2.32	0.991	0.649	0.307	0.102	0.370E	---	---	25
26	---	---	0.235B	2.53	3.28	1.02	0.715	0.326	0.110	0.380E	---	---	26
27	---	---	0.860B	1.94	2.79	0.945	0.933	0.318	0.098	0.360E	---	---	27
28	---	---	1.73 B	1.60	2.02	1.04	0.956	0.251	0.108	0.340E	---	---	28
29	---	---	3.36 B	1.41	1.63	1.19	0.823	0.201	0.157	0.315E	---	---	29
30	---		5.78 B	1.30	1.54	1.10	0.651	0.166	0.167	0.300E	---	---	30
31	---		7.04 B		1.83		0.531	0.155		0.290E		---	31
TOTAL	---	---	28.279	75.467	38.889	110.628	277.304	7.959	5.034	12.759	---	---	TOTAL
MEAN	---	---	0.912	2.52	1.25	3.69	8.95	0.257	0.168	0.412	---	---	MEAN
MAX	---	---	7.04	11.2	3.28	21.1	81.1	0.442	0.408	0.858	---	---	MAX
MIN	---	---	0.084	0.931	0.720	0.902	0.531	0.148	0.076	0.168	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.27
MAXIMUM DAILY, 81.1A ON JUL 04
MINIMUM DAILY, 0.076 ON SEP 14
MAXIMUM INSTANTANEOUS,
88.8 AT 13:56 MST ON JUL 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 44 20 N
LONG 114 08 50 W
DRAINAGE AREA, 241 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	24 000
FEB	---	AUG	688
MAR	2 440	SEP	435
APR	6 520	OCT	1 100
MAY	3 360	NOV	---
JUN	9 560	DEC	---

TOTAL DISCHARGE, 48 100 dam³

LODGE CREEK AT HIGHWAY NO. 41 - STATION NO. 11AB902

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	1.70 E	0.206	0.137	0	0	0	0	---	---	1
2	---	---	---	1.72 A	0.295	0.121	0	0	0	0	---	---	2
3	---	---	---	1.57	0.269	0.106	0	0	0	0	---	---	3
4	---	---	---	1.12	0.238	0.097	0	0	0	0	---	---	4
5	---	---	---	0.747	0.233	0.090	0	0	0	0	---	---	5
6	---	---	---	0.535	0.185	0.085	0	0	0	0	---	---	6
7	---	---	---	0.445	0.145	0.075	0	0	0	0	---	---	7
8	---	---	---	0.396	0.117	0.053	0	0	0	0	---	---	8
9	---	---	---	0.363	0.111	0.051	0	0	0	0	---	---	9
10	---	---	---	0.319	0.094	0.067	0	0	0	0	---	---	10
11	---	---	---	0.279	0.087	0.058	0	0	0	0	---	---	11
12	---	---	---	0.259	0.102	0.071	0	0	0	0	---	---	12
13	---	---	---	0.294	0.089	0.062	0	0	0	0	---	---	13
14	---	---	---	0.286	0.092	0.283	0	0	0	0	---	---	14
15	---	---	---	0.300	0.093	0.388	0	0	0	0	---	---	15
16	---	---	---	0.288	0.076	0.234	0	0	0	0	---	---	16
17	---	---	---	0.316	0.061	0.179	0	0	0	0	---	---	17
18	---	---	---	0.299	0.043	0.146	0	0	0	0	---	---	18
19	---	---	---	0.267	0.037	0.120	0	0	0	---	---	---	19
20	---	---	---	0.329	0.035	0.098	0	0	0	---	---	---	20
21	---	---	---	0.322	0.036	0.080	0	0	0	---	---	---	21
22	---	---	---	0.302	0.063	0.056	0	0	0	---	---	---	22
23	---	---	---	0.340	0.144	0.021	0	0	0	---	---	---	23
24	---	---	---	0.353	4.25	0.008	0	0	0	---	---	---	24
25	---	---	---	0.309	13.1	0	0	0	0	---	---	---	25
26	---	---	---	0.262	1.63	0	0	0	0	---	---	---	26
27	---	---	---	0.231	0.416	0	0	0	0	---	---	---	27
28	---	---	---	0.213	0.271	0	0	0	0	---	---	---	28
29	---	---	1.71A	0.229	0.205	0	0	0	0	---	---	---	29
30	---		---	0.221	0.173	0	0	0	0	0.045A	---	---	30
31	---		---		0.153		0	0		---		---	31
TOTAL	---	---	---	14.614	23.049	2.686	0	0	0	---	---	---	TOTAL
MEAN	---	---	---	0.487	0.744	0.090	0	0	0	---	---	---	MEAN
MAX	---	---	---	1.72	13.1	0.388	0	0	0	---	---	---	MAX
MIN	---	---	---	0.213	0.035	0	0	0	0	---	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 13.1 ON MAY 25
MINIMUM DAILY, 0 ON JUN 25

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 25 10 N
LONG 110 15 20 W
DRAINAGE AREA, 289 km²
A - MANUAL GAUGE

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	---	SEP	0
APR	14.614	OCT	---
MAY	1 990	NOV	---
JUN	232	DEC	---

LOGAN RIVER NEAR THE MOUTH - STATION NO. 07CA012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.570B	0.719B	6.15	1.77	1.34	0.713	0.874	0.825	---	---	1
2	---	---	0.576B	0.802B	5.46	1.76	1.34	0.687	0.863	0.841	---	---	2
3	---	---	0.582B	0.928B	5.09	1.62	1.43	0.665	0.837	0.875	---	---	3
4	---	---	0.595B	1.23 B	4.75	1.52	1.80	0.663	0.818	0.903	---	---	4
5	---	---	0.600B	1.54 B	4.51	1.43	1.98	0.685	0.776	0.916	---	---	5
6	---	---	0.605B	1.90 B	4.29	1.45	1.88	0.716	0.748	0.922	---	---	6
7	---	---	0.611B	1.92 B	4.90	1.40	1.80	0.699	0.747	0.931	---	---	7
8	---	---	0.613B	1.90 B	5.70	1.37	1.69	0.649	0.747	0.931	---	---	8
9	---	---	0.613B	1.63 B	6.40	1.37	1.53	0.618	0.758	0.947	---	---	9
10	---	---	0.614B	1.55 B	7.09	1.41	1.53	0.613	0.784	1.06	---	---	10
11	---	---	0.610B	1.40 B	7.73	1.66	1.49	0.611	0.778	1.28	---	---	11
12	---	---	0.616B	1.37 B	7.63	2.47	1.39	0.593	0.774	1.31	---	---	12
13	---	---	0.625B	1.40 B	6.72	3.32	1.30	0.599	0.796	1.28	---	---	13
14	---	---	0.632B	1.38 B	5.67	3.76	1.18	0.606	0.809	1.26	---	---	14
15	---	---	0.638B	1.42 B	5.06	3.82	1.12	0.607	0.776	1.25	---	---	15
16	---	---	0.635B	1.46 B	4.67	3.44	1.04	0.607	0.774	1.12	---	---	16
17	---	---	0.635B	1.65 B	4.16	3.16	1.02	0.644	0.782	1.09	---	---	17
18	---	---	0.635B	2.10 B	3.85	2.87	0.990	0.693	0.774	1.07	---	---	18
19	---	---	0.634B	2.63 B	3.62	2.69	0.955	0.722	0.750	1.04	---	---	19
20	---	---	0.631B	3.55 B	3.46	2.58	0.934	0.723	0.760	1.00	---	---	20
21	---	---	0.625B	3.70 B	3.39	2.61	0.917	0.719	0.760	1.00 B	---	---	21
22	---	---	0.618B	4.18 B	3.26	2.36	0.902	0.700	0.772	0.950B	---	---	22
23	---	---	0.617B	4.72 B	3.04	2.09	0.846	0.675	0.811	0.904B	---	---	23
24	---	---	0.618B	5.79	2.81	1.90	0.830	0.649	0.818	0.871B	---	---	24
25	---	---	0.617B	6.97	2.73	1.74	0.817	0.669	0.843	0.870B	---	---	25
26	---	---	0.617B	7.77	2.58	1.60	0.817	0.662	0.863	0.850B	---	---	26
27	---	---	0.624B	8.60	2.45	1.52	0.810	0.640	0.876	0.825B	---	---	27
28	---	---	0.636B	9.53	2.28	1.47	0.791	0.627	0.961	0.800B	---	---	28
29	---	---	0.645B	9.10	2.07	1.41	0.705	0.630	0.901	0.780B	---	---	29
30	---		0.639B	7.63	1.94	1.35	0.756	0.623	0.817	0.775B	---	---	30
31	---		0.635B		1.87		0.726	0.767		0.770B		---	31
TOTAL	---	---	19.161	100.549	135.23	62.92	36.736	20.474	24.147	30.246	---	---	TOTAL
MEAN	---	---	0.618	3.35	4.36	2.10	1.19	0.661	0.805	0.976	---	---	MEAN
MAX	---	---	0.645	9.53	7.73	3.82	1.98	0.767	0.961	1.31	---	---	MAX
MIN	---	---	0.570	0.719	1.87	1.35	0.726	0.593	0.747	0.770	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.75
MAXIMUM DAILY, 9.53 ON APR 28
MINIMUM DAILY, 0.570B ON MAR 01
MAXIMUM INSTANTANEOUS,
9.73 AT 18:27 MST ON APR 28

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 10 44 N
LONG 111 43 42 W
DRAINAGE AREA, 425 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 170
FEB	---	AUG	1 770
MAR	1 660	SEP	2 090
APR	8 690	OCT	2 610
MAY	11 700	NOV	---
JUN	5 440	DEC	---

TOTAL DISCHARGE, 37 100 dam³

LOMOND LATERAL NEAR HEADGATE - STATION NO. 05AC017

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0	0	3.10	14.2	7.19	5.04	6.99	---	---	1
2	---	---	---	0	0	3.15	14.2	7.35	5.05	6.93	---	---	2
3	---	---	---	0	0	3.17	14.1	7.46	5.13	6.32	---	---	3
4	---	---	---	0	0	3.10	13.4	7.48	5.78	5.92	---	---	4
5	---	---	---	0	0	2.66	13.5	7.41	6.27	4.70	---	---	5
6	---	---	---	0	0	2.32	13.8	7.44	6.15	3.73	---	---	6
7	---	---	---	0	0	2.68	13.6	6.89	6.50	3.80	---	---	7
8	---	---	---	0	0	2.91	13.4	6.47	6.92	3.70	---	---	8
9	---	---	---	0	0	3.15	13.4	6.03	6.84	3.12	---	---	9
10	---	---	---	0	2.21	3.83	13.3	5.92	7.60	1.34	---	---	10
11	---	---	---	0	4.90	5.34	13.1	5.98	8.03	0	---	---	11
12	---	---	---	0	5.22	6.72	12.9	6.05	8.10	0	---	---	12
13	---	---	---	0	5.36	5.80	13.0	5.35	7.61	0	---	---	13
14	---	---	---	0	5.36	5.27	13.4	5.23	7.28	0	---	---	14
15	---	---	---	0	6.06	5.28	13.4	5.27	7.21	0	---	---	15
16	---	---	---	0	6.82	5.67	13.5	5.20	7.14	0	---	---	16
17	---	---	---	0	7.71	5.95	13.6	4.86	7.63	0	---	---	17
18	---	---	---	0	9.34	7.18	13.6	4.91	7.82	0	---	---	18
19	---	---	---	0	9.86	8.96	12.0	4.96	7.94	0	---	---	19
20	---	---	---	0	9.96	9.81	10.3	4.62	7.82	0	---	---	20
21	---	---	---	0	9.12	10.3	9.84	4.02	7.86	0	---	---	21
22	---	---	---	0	8.57	10.3	10.1	3.06	7.79	0	---	---	22
23	---	---	---	0	7.57	10.3	10.0	3.08	7.77	0	---	---	23
24	---	---	---	0	7.08	10.4	10.2	2.99	7.70	0	---	---	24
25	---	---	---	0	6.71	11.8	10.1	2.98	7.76	0	---	---	25
26	---	---	OA	0	5.45	12.2	10.2	2.94	7.56	0	---	---	26
27	---	---	0	0	4.92	12.8	9.26	3.02	7.39	0	---	---	27
28	---	---	0	0	4.90	14.0	8.68	2.76	7.34	0	---	---	28
29	---	---	0	0	4.34	14.4	8.35	2.60	7.27	0 A	---	---	29
30	---		0	0	3.99	14.2	7.71	2.55	7.19	0 E	---	---	30
31	---		0		3.50		7.12	4.02		0 E		---	31
TOTAL	---	---	---	0	138.95	217.05	367.26	156.09	213.57	46.55	---	---	TOTAL
MEAN	---	---	---	0	4.48	7.24	11.8	5.04	7.12	1.50	---	---	MEAN
MAX	---	---	---	0	9.96	14.4	14.2	7.48	8.10	6.99	---	---	MAX
MIN	---	---	---	0	0	2.32	7.12	2.55	5.04	0	---	---	MIN

SUMMARY FOR THE MONTHS APR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 5.32
MAXIMUM DAILY, 14.4 ON JUN 29
MINIMUM DAILY, 0 ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 12 50 N
LONG 112 39 40 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	31 700
FEB	---	AUG	13 500
MAR	---	SEP	18 500
APR	0	OCT	4 020
MAY	12 000	NOV	---
JUN	18 800	DEC	---

TOTAL DISCHARGE, 98 500 dam³

LOVETT RIVER NEAR THE MOUTH - STATION NO. 07BA003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	2.13E	8.34	2.11	1.20	0.836	0.480	0.416B	---	1
2	---	---	---	---	2.13A	7.09	2.26	1.12	0.748	0.535	---	---	2
3	---	---	---	---	2.27	5.45	5.28	1.11	0.751	0.460	---	---	3
4	---	---	---	---	2.38	5.05	5.13	0.960	0.750	0.546B	---	---	4
5	---	---	---	---	2.76	4.62	3.60	0.920	0.669	0.564B	---	---	5
6	---	---	---	---	3.05	4.04	11.4	0.888	0.645	0.560B	---	---	6
7	---	---	---	---	2.70	3.57	14.4	0.789	0.540	0.515B	---	---	7
8	---	---	---	---	2.54	3.21	7.81	0.722	0.520	0.507B	---	---	8
9	---	---	---	---	2.72	2.85	5.43	0.727	0.524	0.681	---	---	9
10	---	---	---	---	2.67	2.71	4.36	0.714	0.589	0.667	---	---	10
11	---	---	---	---	2.64	4.44	3.75	0.692	0.602	0.656B	---	---	11
12	---	---	---	---	2.67	13.8	3.36	0.646	0.658	0.620B	---	---	12
13	---	---	---	---	2.77	22.7	3.13	0.667	0.655	0.570B	---	---	13
14	---	---	---	---	2.88	14.9	2.91	0.686	0.592	0.520B	---	---	14
15	---	---	---	---	2.91	10.4	2.59	0.663	0.566	0.500B	---	---	15
16	---	---	---	---	3.01	8.07	2.75	0.641	1.00	0.480B	---	---	16
17	---	---	---	---	3.20	6.43	2.51	0.712	2.01	0.450B	---	---	17
18	---	---	---	---	3.40	5.09	2.32	1.12	1.45	0.410B	---	---	18
19	---	---	---	---	3.30	4.41	2.24	0.888	1.19	0.381B	---	---	19
20	---	---	---	---	3.61	4.15	2.10	0.753	0.933	0.356B	---	---	20
21	---	---	---	---	4.49	3.58	1.91	0.730	0.763	0.410B	---	---	21
22	---	---	---	---	4.62	3.18	1.77	0.972	0.680	0.411B	---	---	22
23	---	---	---	---	4.12	2.88	1.65	1.33	0.651	0.420B	---	---	23
24	---	---	---	---	5.04	2.70	1.62	1.28	0.598	0.497	---	---	24
25	---	---	---	---	9.14	2.58	1.50	1.08	0.565	0.561	---	---	25
26	---	---	---	---	8.40	2.38	1.45	1.29	0.521	0.479B	---	---	26
27	---	---	---	---	5.96	2.35	1.46	1.12	0.497	0.470B	---	---	27
28	---	---	---	---	5.02	2.55	1.42	0.939	0.535	0.490B	---	---	28
29	---	---	---	---	4.59	2.43	1.28	0.737	0.569	0.456B	---	---	29
30	---		---	---	5.20	2.23	1.24	0.946	0.501	0.447B	---	---	30
31	---		---		7.93		1.18	1.06		0.406B		---	31
TOTAL	---	---	---	---	120.25	168.18	105.82	28.102	22.108	15.505	---	---	TOTAL
MEAN	---	---	---	---	3.88	5.61	3.41	0.907	0.737	0.500	---	---	MEAN
MAX	---	---	---	---	9.14	22.7	14.4	1.33	2.01	0.681	---	---	MAX
MIN	---	---	---	---	2.13	2.23	1.18	0.641	0.497	0.356	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.50
MAXIMUM DAILY, 22.7 ON JUN 13
MINIMUM DAILY, 0.356B ON OCT 20
MAXIMUM INSTANTANEOUS,
25.7 AT 08:25 MST ON JUN 13

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 39 50 N
LONG 116 39 20 W
DRAINAGE AREA, 101 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	9 140
FEB	---	AUG	2 430
MAR	---	SEP	1 910
APR	---	OCT	1 340
MAY	10 400	NOV	---
JUN	14 500	DEC	---

TOTAL DISCHARGE, 39 700 dam³

LOWER KANANASKIS LAKE - STATION NO. 05BF009

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 666.26	1 664.82	1 663.30	1 659.48	1 655.48	1 658.66	1 662.61	1 665.07	1 665.85	1 666.57	1 665.79	1 666.40	1
2	1 666.20	1 664.76	1 663.28	1 659.27	1 655.52	1 658.97	1 662.80	1 664.94	1 665.89	1 666.57	1 665.64	1 666.41	2
3	1 666.16	1 664.77	1 663.21	1 659.06	1 655.51	1 659.24	1 662.91	1 664.81	1 665.92	1 666.57	1 665.66	1 666.38	3
4	1 666.12	1 664.76	1 663.22	1 658.75	1 655.56	1 659.31	1 662.92	1 664.78	1 665.94	1 666.67	1 665.68	1 666.35	4
5	1 666.09	1 664.67	1 663.10	1 658.53	1 655.64	1 659.42	1 662.93	1 664.85	1 665.94	1 666.63	1 665.66	1 666.33	5
6	1 666.09	1 664.57	1 662.97	1 658.30	1 655.73	1 659.46	1 663.09	1 664.91	1 665.96	1 666.66	1 665.68	1 666.27	6
7	1 666.08	1 664.48	1 662.84	1 658.23	1 655.75	1 659.50	1 663.24	1 664.95	1 665.96	1 666.68	1 665.71	1 666.21	7
8	1 666.01	1 664.45	1 662.70	1 658.26	1 655.82	1 659.50	1 663.39	1 664.91	1 666.00	1 666.64	1 665.79	1 666.36	8
9	1 665.95	1 664.36	1 662.55	1 658.08	1 655.79	1 659.54	1 663.48	1 664.93	1 666.03	1 666.64	1 665.79	1 666.38	9
10	1 665.88	1 664.36	1 662.46	1 657.82	1 655.85	1 659.76	1 663.58	1 664.99	1 666.05	1 666.64	1 665.89	1 666.34	10
11	1 665.85	1 664.36	1 662.47	1 657.62	1 655.85	1 659.88	1 663.73	1 665.05	1 666.06	1 666.63	1 665.92	1 666.28	11
12	1 665.84	1 664.28	1 662.30	1 657.43	1 655.92	1 660.02	1 663.96	1 665.14	1 666.07	1 666.63	1 665.94	1 666.21	12
13	1 665.79	1 664.20	1 662.13	1 657.45	1 655.99	1 660.03	1 664.06	1 665.27	1 666.09	1 666.65	1 665.97	1 666.14	13
14	1 665.73	1 664.11	1 661.96	1 657.37	1 655.93	1 660.08	1 664.11	1 665.21	1 666.11	1 666.67	1 666.00	1 666.09	14
15	1 665.66	1 664.03	1 661.79	1 657.40	1 655.94	1 660.07	1 664.23	1 665.24	1 666.13	1 666.64	1 666.02	1 666.23	15
16	1 665.58	1 663.96	1 661.61	1 657.27	1 656.00	1 660.25	1 664.29	1 665.28	1 666.16	1 666.63	1 666.06	1 666.23	16
17	1 665.53	1 663.92	1 661.54	1 657.09	1 656.06	1 660.43	1 664.36	1 665.33	1 666.19	1 666.63	1 666.17	1 666.17	17
18	1 665.49	1 663.90	1 661.54	1 656.83	1 656.09	1 660.59	1 664.42	1 665.39	1 666.23	1 666.62	1 666.19	1 666.11	18
19	1 665.45	1 663.85	1 661.35	1 656.65	1 656.15	1 660.74	1 664.48	1 665.43	1 666.26	1 666.61	1 666.19	1 666.05	19
20	1 665.45	1 663.77	1 661.18	1 656.47	1 656.22	1 660.79	1 664.55	1 665.49	1 666.30	1 666.63	1 666.19	1 665.95	20
21	1 665.46	1 663.71	1 660.99	1 656.51	1 656.28	1 660.93	1 664.63	1 665.44	1 666.36	1 666.65	1 666.18	1 665.90	21
22	1 665.39	1 663.63	1 660.80	1 656.57	1 656.36	1 661.10	1 664.70	1 665.50	1 666.38	1 666.53	1 666.21	1 665.92	22
23	1 665.31	1 663.61	1 660.60	1 656.42	1 656.51	1 661.35	1 664.74	1 665.63	1 666.40	1 666.41	1 666.23	1 666.02	23
24	1 665.21	1 663.62	1 660.51	1 656.17	1 656.57	1 661.61	1 664.91	1 665.68	1 666.41	1 666.31	1 666.17	1 665.98	24
25	1 665.18	1 663.62	1 660.51	1 656.01	1 656.88	1 661.83	1 664.95	1 665.73	1 666.49	1 666.21	1 666.38	1 666.08	25
26	1 665.14	1 663.53	1 660.32	1 655.83	1 657.21	1 661.93	1 665.10	1 665.77	1 666.49	1 666.13	1 666.38	1 666.10	26
27	1 665.14	1 663.42	1 660.11	1 655.71	1 657.48	1 662.01	1 665.20	1 665.77	1 666.49	1 666.15	1 666.34	1 666.08	27
28	1 665.14	1 663.35	1 659.95	1 655.75	1 657.75	1 662.17	1 665.16	1 665.73	1 666.51	1 666.17	1 666.32	1 666.05	28
29	1 665.03		1 659.75	1 655.79	1 658.09	1 662.21	1 665.18	1 665.77	1 666.53	1 666.09	1 666.30	1 666.08	29
30	1 664.96		1 659.53	1 655.50	1 658.36	1 662.41	1 665.22	1 665.81	1 666.55	1 666.02	1 666.27	1 666.06	30
31	1 664.90		1 659.46		1 658.52		1 665.09	1 665.82		1 665.92		1 665.97	31
MEAN	1 665.62	1 664.10	1 661.61	1 657.25	1 656.35	1 660.46	1 664.13	1 665.31	1 666.19	1 666.49	1 666.03	1 666.17	MEAN
MAX	1 666.26	1 664.82	1 663.30	1 659.48	1 658.52	1 662.41	1 665.22	1 665.82	1 666.55	1 666.68	1 666.38	1 666.41	MAX
MIN	1 664.90	1 663.35	1 659.46	1 655.50	1 655.48	1 658.66	1 662.61	1 664.78	1 665.85	1 665.92	1 665.64	1 665.90	MIN

WATER LEVELS IN METRES

MEAN, 1 663.31
MAXIMUM DAILY, 1 666.68 ON OCT 07
MINIMUM DAILY, 1 655.48 ON MAY 01

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 41 20 N
LONG 115 07 30 W
DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
359 km²

WATER LEVELS ARE REFERRED TO TRANSALTA UTILITIES DATUM
APPLY 5.38 m ADJUSTMENT TO CONVERT TO GEODETIC SURVEY OF CANADA DATUM

LOYALIST CREEK NEAR CONSORT - STATION NO. 05GA013

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0	0.301	0.014	0.002	0	0.006	0	0	---	---	1
2	---	---	0	0.193	0.013	0.003	0.001	0.008	0	0	---	---	2
3	---	---	0	0.153	0.012	0.004	0.030	0.008	0	0	---	---	3
4	---	---	0.041B	0.111	0.010	0.004	0.015	0.007	0	0	---	---	4
5	---	---	0.062B	0.081	0.009	0.004	0.008	0.006	0	0.091	---	---	5
6	---	---	0.015B	0.055	0.009	0.004	0.060	0.005	0	0.329	---	---	6
7	---	---	0.008B	0.032	0.008	0.004	0.096	0.003	0	0.320	---	---	7
8	---	---	0.039B	0.026	0.009	0.004	0.027	0.001	0	0.301	---	---	8
9	---	---	0.038B	0.029	0.009	0.005	0.009	0	0	0.282	---	---	9
10	---	---	0.004B	0.026	0.008	0.005	0.007	0	0	0.242	---	---	10
11	---	---	0.024B	0.023	0.008	0.005	0.006	0	0	0.109	---	---	11
12	---	---	0.074B	0.016	0.008	0.005	0.005	0	0	0.006	---	---	12
13	---	---	0.025B	0.013	0.008	0.037	0.003	0	0	0.004	---	---	13
14	---	---	0.020B	0.013	0.008	0.008	0.002	0	0	0.003	---	---	14
15	---	---	0.034B	0.015	0.008	0.008	0.002	0	0	0.002	---	---	15
16	---	---	0.072B	0.014	0.008	0.007	0.003	0	0	0.001	---	---	16
17	---	---	0.093B	0.014	0.007	0.006	0.003	0	0	0.001	---	---	17
18	---	---	0.107B	0.020	0.007	0.006	0.003	0	0	0.001	---	---	18
19	---	---	0.253B	0.022	0.007	0.005	0.003	0	0	0.001	---	---	19
20	---	---	0.335B	0.024	0.007	0.005	0.003	0	0	0.001	---	---	20
21	---	---	0.255B	0.019	0.007	0.004	0.002	0	0	0.001	---	---	21
22	---	---	0.140B	0.015	0.007	0.004	0.002	0	0	0.001	---	---	22
23	---	---	0.213B	0.018	0.007	0.002	0.001	0	0	0.001	---	---	23
24	---	---	0.343B	0.018	0.005	0.001	0	0	0	0.001	---	---	24
25	---	---	0.196B	0.021	0.004	0.001	0	0	0	0.001	---	---	25
26	---	0	0.113B	0.021	0.003	0	0.087	0	0	0.001	---	---	26
27	---	0	0.149B	0.023	0.002	0	0.028	0	0	0.001	---	---	27
28	---	0	0.330B	0.024	0.002	0	0.007	0	0	0.001	---	---	28
29	---		0.737B	0.023	0.002	0	0.006	0	0	0.001	---	---	29
30	---		0.617B	0.022	0.002	0	0.005	0	0	0.001A	---	---	30
31	---		0.466		0.002		0.004	0		0.001E		---	31
TOTAL	---	---	4.811	1.385	0.220	0.143	0.428	0.044	0	1.704	---	---	TOTAL
MEAN	---	---	0.155	0.046	0.007	0.005	0.014	0.001	0	0.055	---	---	MEAN
MAX	---	---	0.737	0.301	0.014	0.037	0.096	0.008	0	0.329	---	---	MAX
MIN	---	---	0	0.013	0.002	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.036
MAXIMUM DAILY, 0.737B ON MAR 29
MINIMUM DAILY, 0 ON MAR 01
MAXIMUM INSTANTANEOUS,
1.05B AT 04:27 MST ON MAR 29

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 00 04 N
LONG 110 45 54 W
DRAINAGE AREA, 260 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1984

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	37.0
FEB	---	AUG	3.80
MAR	416	SEP	0
APR	120	OCT	147
MAY	19.0	NOV	---
JUN	12.4	DEC	---

TOTAL DISCHARGE, 755 dam³

LUTOSE CREEK NEAR STEEN RIVER - STATION NO. 07OB006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	OB	0 B	0.884	0.971	0.340	0.045	0.012	0.003	---	---	1
2	---	---	OB	0 B	0.820	1.10	0.297	0.045	0.012	0.012	---	---	2
3	---	---	OB	0 B	0.763	1.10	0.257	0.033	0.010	0.022	---	---	3
4	---	---	OB	0 B	0.722	1.02	0.221	0.028	0.009	0.025	---	---	4
5	---	---	OB	0 B	0.685	0.862	0.249	0.023	0.008	0.032	---	---	5
6	---	---	OB	0 B	0.684	0.706	0.197	0.020	0.007	0.038	---	---	6
7	---	---	OB	0 B	0.884	0.633	0.173	0.020	0.007	0.038	---	---	7
8	---	---	OB	0 B	1.34	0.590	0.153	0.019	0.006	0.034	---	---	8
9	---	---	OB	0 B	1.66	0.621	0.149	0.016	0.006	0.028	---	---	9
10	---	---	OB	0.001B	2.10 E	0.646	0.119	0.015	0.006	0.030	---	---	10
11	---	---	OB	0.002B	2.30 E	0.740	0.088	0.013	0.006	0.027	---	---	11
12	---	---	OB	0.005B	2.10 E	0.754	0.081	0.014	0.006	0.030	---	---	12
13	---	---	OB	0.004B	1.83 E	0.664	0.156	0.014	0.005	0.029	---	---	13
14	---	---	OB	0.003B	1.85 E	0.588	0.217	0.013	0.005	0.028	---	---	14
15	---	---	OB	0.002B	1.98 E	0.491	0.185	0.012	0.006	0.019B	---	---	15
16	---	---	OB	0.022B	2.10 E	0.416	0.156	0.011	0.005	0.015B	---	---	16
17	---	---	OB	0.050B	1.90 E	0.362	0.137	0.009	0.005	0.010B	---	---	17
18	---	---	OB	0.150B	1.70 E	0.322	0.113	0.010	0.005	0.008B	---	---	18
19	---	---	OB	0.237B	1.65 E	0.309	0.095	0.010	0.006	0.008B	---	---	19
20	---	---	OB	0.245B	1.73 E	0.319	0.091	0.010	0.005	0.008B	---	---	20
21	---	OB	OB	0.189B	1.72 E	0.315	0.085	0.008	0.004	0.007B	---	---	21
22	---	OB	OB	0.159B	1.50 E	0.279	0.070	0.014	0.004	0.007B	---	---	22
23	---	OB	OB	0.441B	1.35 E	0.239	0.069	0.021	0.005	0.007B	---	---	23
24	---	OB	OB	0.606B	1.22 E	0.185	0.058	0.019	0.004	0.006B	---	---	24
25	---	OB	OB	1.59 B	1.10 E	0.150	0.050	0.017	0.003	0.009B	---	---	25
26	---	OB	OB	1.87 B	1.13 E	0.134	0.034	0.017	0.003	0.011B	---	---	26
27	---	OB	OB	1.96 B	1.17 E	0.134	0.055	0.021	0.002	0.006B	---	---	27
28	---	OB	OB	1.27	1.12 E	0.154	0.045	0.019	0.002	0.007B	---	---	28
29	---		OB	1.10	1.06 A	0.309	0.029	0.017	0.002	0.010B	---	---	29
30	---		OB	0.954	0.998	0.360	0.025	0.015	0.002	0.018B	---	---	30
31	---		OB		0.953		0.025	0.013		0.020B		---	31
TOTAL	---	---	0	10.860	43.003	15.473	4.019	0.561	0.168	0.552	---	---	TOTAL
MEAN	---	---	0	0.362	1.39	0.516	0.130	0.018	0.006	0.018	---	---	MEAN
MAX	---	---	0	1.96	2.30	1.10	0.340	0.045	0.012	0.038	---	---	MAX
MIN	---	---	0	0	0.684	0.134	0.025	0.008	0.002	0.003	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.305
MAXIMUM DAILY, 2.30E ON MAY 11
MINIMUM DAILY, OB ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 59 24 18 N
LONG 117 17 00 W
DRAINAGE AREA, 292 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	347
FEB	---	AUG	48.5
MAR	0	SEP	14.5
APR	938	OCT	47.7
MAY	3 720	NOV	---
JUN	1 340	DEC	---

TOTAL DISCHARGE, 6 460 dam³

MACKAY CREEK AT WALSH - STATION NO. 05AH002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	0B	0B	0	0	0	0	0	0	0	---	---	1
2	---	0B	0B	0.069	0	0	0	0	0	0	---	---	2
3	---	0B	0B	0.037	0	0	0	0	0	0	---	---	3
4	---	0B	0B	0.031	0	0	0	0	0	0	---	---	4
5	---	0B	0B	0.091	0.029	0	0	0	0	0	---	---	5
6	---	0B	0B	0.047	0.071	0	0	0	0	0	---	---	6
7	---	0B	0B	0.015	0.019	0	0	0	0	0	---	---	7
8	---	0B	0B	0	0.003	0	0	0	0	0	---	---	8
9	---	0B	0B	0	0	0	0	0	0	0	---	---	9
10	---	0B	0B	0	0	0	0	0	0	0	---	---	10
11	---	0B	0B	0	0	0	0	0	0	0	---	---	11
12	---	0B	0B	0	0	0	0	0	0	0	---	---	12
13	---	0B	0B	0	0	0	0	0	0	0	---	---	13
14	---	0B	0B	0	0.016	0	0	0	0	0	---	---	14
15	---	0B	0B	0	0.019	0	0	0	0	0	---	---	15
16	---	0B	0B	0	0.015	0	0	0	0	0	---	---	16
17	---	0B	0B	0	0.014	0	0	0	0	0	---	---	17
18	---	0B	0B	0	0.009	0	0	0	0	0	---	---	18
19	---	0B	0B	0	0.005	0	0	0	0	0	---	---	19
20	---	0B	0B	0	0.002	0	0	0	0	0	---	---	20
21	---	0B	0B	0	0.003	0	0	0	0	0	---	---	21
22	---	0B	0B	0	0.004	0	0	0	0	0	---	---	22
23	---	0B	0B	0	0.001	0	0	0	0	0	---	---	23
24	---	0B	0B	0	0	0	0	0	0	0	---	---	24
25	---	0B	0B	0	0	0	0	0	0	0	---	---	25
26	---	0B	0B	0	0	0	0	0	0	0	---	---	26
27	---	0B	0B	0	0	0	0	0	0	0	---	---	27
28	---	0B	0B	0	0	0	0	0	0	0	---	---	28
29	0B		0B	0	0	0	0	0	0	0A	---	---	29
30	0B		0	0	0	0	0	0	0	0E	---	---	30
31	0B		0		0		0	0		0E		---	31
TOTAL	---	0	0	0.290	0.210	0	0	0	0	0	---	---	TOTAL
MEAN	---	0	0	0.010	0.007	0	0	0	0	0	---	---	MEAN
MAX	---	0	0	0.091	0.071	0	0	0	0	0	---	---	MAX
MIN	---	0	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS FEB TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.002
MAXIMUM DAILY, 0.091 ON APR 05
MINIMUM DAILY, 0B ON FEB 01
MAXIMUM INSTANTANEOUS,
0.109 AT 04:00 MST ON APR 05

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 56 30 N
LONG 110 02 40 W
DRAINAGE AREA, 436 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	0	AUG	0
MAR	0	SEP	0
APR	25.0	OCT	0
MAY	18.1	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 43.1 dam³

MACKAY CREEK NEAR GRABURN GAP - STATION NO. 05AH042

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	0 B	0.044B	0.036B	0.119	0.006	0	0	0	0	---	---	1
2	---	0 B	0.072B	0.035B	0.188	0.005	0	0	0	0	---	---	2
3	---	0 B	0.080B	0.033B	0.196	0.015	0	0	0	0	---	---	3
4	---	0 B	0.088B	0.030B	0.150	0.009	0	0	0	0	---	---	4
5	---	0 B	0.096B	0.028B	0.096	0.010	0	0	0	0	---	---	5
6	---	0 B	0.112B	0.026B	0.062	0.010	0	0	0	0	---	---	6
7	---	0 B	0.190B	0.024B	0.041	0.014	0	0	0	0	---	---	7
8	---	0 B	0.210B	0.020B	0.052	0.021	0	0	0	0	---	---	8
9	---	0 B	0.100B	0.016B	0.072	0.009	0	0	0	0	---	---	9
10	---	0 B	0.084B	0.012B	0.098	0.003	0	0	0	0	---	---	10
11	---	0 B	0.072B	0.013B	0.069	0.001	0	0	0	0	---	---	11
12	---	0 B	0.060B	0.017B	0.054	0	0	0	0	0	---	---	12
13	---	0 B	0.046B	0.019B	0.054	0.038	0	0	0	0	---	---	13
14	---	0 B	0.045B	0.051	0.044	0.144	0	0	0	0	---	---	14
15	---	0 B	0.039B	0.060	0.042	0.068	0	0	0	0	---	---	15
16	---	0 B	0.039B	0.050	0.036	0.030	0	0	0	0	---	---	16
17	---	0 B	0.040B	0.042	0.034	0.013	0	0	0	0	---	---	17
18	---	0 B	0.041B	0.038	0.029	0.004	0	0	0	0.041	---	---	18
19	---	0 B	0.046B	0.042	0.047	0.002	0	0	0	0.809	---	---	19
20	---	0 B	0.046B	0.040	0.047	0.002	0	0	0	0.891	---	---	20
21	---	0.001B	0.046B	0.040	0.043	0.005	0	0	0	0.851	---	---	21
22	---	0.003B	0.044B	0.045	0.035	0.002	0	0	0	0.787	---	---	22
23	---	0.010B	0.038B	0.043	0.026	0.001	0	0	0	0.712	---	---	23
24	---	0.011B	0.033B	0.034	0.023	0	0	0	0	0.628	---	---	24
25	---	0.011B	0.030B	0.030	0.084	0	0	0	0	0.500	---	---	25
26	---	0.010B	0.028B	0.039	0.079	0	0	0	0	0.194	---	---	26
27	---	0.010B	0.029B	0.062	0.053	0	0	0	0	0.034	---	---	27
28	---	0.010B	0.032B	0.075	0.036	0	0	0	0	0.013	---	---	28
29	---		0.035B	0.040	0.020	0	0	0	0	0.004	---	---	29
30	0B		0.036B	0.039	0.013	0	0	0	0	0.002A	---	---	30
31	0B		0.037B		0.010		0	0		0.001E		---	31
TOTAL	---	0.066	1.938	1.079	1.952	0.412	0	0	0	5.467	---	---	TOTAL
MEAN	---	0.002	0.063	0.036	0.063	0.014	0	0	0	0.176	---	---	MEAN
MAX	---	0.011	0.210	0.075	0.196	0.144	0	0	0	0.891	---	---	MAX
MIN	---	0	0.028	0.012	0.010	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS FEB TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.040
MAXIMUM DAILY, 0.891 ON OCT 20
MINIMUM DAILY, 0B ON FEB 01
MAXIMUM INSTANTANEOUS,
0.967 AT 15:50 MST ON OCT 20

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 44 28 N
LONG 110 02 33 W
DRAINAGE AREA, 75.1 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	5.70	AUG	0
MAR	167	SEP	0
APR	93.2	OCT	472
MAY	169	NOV	---
JUN	35.6	DEC	---

TOTAL DISCHARGE, 943 dam³

MACKAY RIVER ABOVE DUNKIRK RIVER - STATION NO. 07DB005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.020B	0.499B	15.1	11.0	4.54	0.484	0.551	0.196	---	---	1
2	---	---	0.024B	1.02 B	16.3	11.2	5.33	0.456	0.486	0.199	---	---	2
3	---	---	0.027B	1.61 B	17.5	10.6	5.47	0.416	0.417	0.190	---	---	3
4	---	---	0.028B	1.97 B	18.1	10.2	5.44	0.359	0.368	0.172	---	---	4
5	---	---	0.029B	2.20 B	18.3	9.91	5.33	0.297	0.351	0.150	---	---	5
6	---	---	0.031B	2.25 B	18.7	10.1	5.41	0.251	0.313	0.144	---	---	6
7	---	---	0.031B	2.42 B	24.0	10.5	5.25	0.142	0.273	0.150	---	---	7
8	---	---	0.030B	2.12 B	28.1	11.2	4.90	0.160	0.242	0.159	---	---	8
9	---	---	0.029B	1.91 B	32.4	10.9	4.59	0.190	0.220	0.161	---	---	9
10	---	---	0.029B	1.55 B	34.3	10.3	4.20	0.223	0.218	0.147	---	---	10
11	---	---	0.029B	1.21 B	35.1	11.6	3.89	0.243	0.212	0.129	---	---	11
12	---	---	0.029B	1.09 B	35.4	15.0	3.54	0.260	0.194	0.120	---	---	12
13	---	---	0.032B	1.08 B	35.2	17.3	3.08	0.250	0.161	0.110	---	---	13
14	---	---	0.035B	1.05 B	34.4	18.6	2.70	0.238	0.166	0.100	---	---	14
15	---	---	0.033B	1.00 B	33.1	19.0	2.49	0.232	0.183	0.099	---	---	15
16	---	---	0.034B	0.927B	31.3	19.2	2.27	0.245	0.184	0.090B	---	---	16
17	---	---	0.034B	1.05 B	29.2	19.0	2.03	0.240	0.189	0.084B	---	---	17
18	---	---	0.040B	1.67 B	26.7	18.7	1.91	0.239	0.236	0.078B	---	---	18
19	---	---	0.040B	2.75 B	24.1	18.1	1.82	0.235	0.253	0.076B	---	---	19
20	---	---	0.044B	3.64 B	21.8	16.7	1.72	0.232	0.310	0.070B	---	---	20
21	---	---	0.040B	4.83 B	20.2	15.2	1.61	0.227	0.335	0.060B	---	---	21
22	---	---	0.041B	6.41 B	19.6	13.7	1.49	0.215	0.377	0.054B	---	---	22
23	---	---	0.047B	7.86 B	19.1	12.1	1.35	0.231	0.373	0.048B	---	---	23
24	---	---	0.051B	9.37 B	15.9	10.5	1.22	0.239	0.330	0.042B	---	---	24
25	---	---	0.064B	10.9 B	15.2	8.84	1.09	0.261	0.310	0.040B	---	---	25
26	---	---	0.121B	10.5 B	14.4	7.36	0.986	0.333	0.361	0.039B	---	---	26
27	---	---	0.151B	11.0 B	13.7	5.97	0.867	0.671	0.318	0.038B	---	---	27
28	---	---	0.123B	12.3 B	13.0	5.03	0.764	0.771	0.287	0.037B	---	---	28
29	---	---	0.124B	13.1 B	12.5	4.39	0.729	0.738	0.252	0.036B	---	---	29
30	---		0.151B	13.9	12.0	3.87	0.621	0.684	0.218	0.035B	---	---	30
31	---		0.247B		11.3		0.543	0.624		0.034B		---	31
TOTAL	---	---	1.796	133.006		691.8	366.07	87.180	10.406	8.608	3.087	---	---	TOTAL
MEAN	---	---	0.058	4.43		22.3	12.2	2.81	0.336	0.290	0.100	---	---	MEAN
MAX	---	---	0.247	13.9		35.4	19.2	5.47	0.771	0.551	0.199	---	---	MAX
MIN	---	---	0.020	0.499		11.3	3.87	0.543	0.142	0.161	0.034	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 5.31
MAXIMUM DAILY, 35.4 ON MAY 12
MINIMUM DAILY, 0.020B ON MAR 01
MAXIMUM INSTANTANEOUS,
35.5 AT 15:33 MST ON MAY 12

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 45 35 N
LONG 112 36 50 W
DRAINAGE AREA, 1 010 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	7 530
FEB	---	AUG	899
MAR	155	SEP	751
APR	11 500	OCT	267
MAY	59 800	NOV	---
JUN	31 600	DEC	---

TOTAL DISCHARGE, 113 000 dam³

MACKAY RIVER NEAR FORT MACKAY - STATION NO. 07DB001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.771B	1.85B	94.5	62.9	29.0	3.86	2.33	1.08	---	---	1
2	---	---	0.734B	1.91B	112	72.8	32.8	3.58	2.21	1.05	---	---	2
3	---	---	0.684B	1.55B	135	75.5	33.8	3.19	2.05	1.09	---	---	3
4	---	---	0.665B	1.81B	150	72.4	32.9	3.17	1.92	1.18	---	---	4
5	---	---	0.704B	4.71B	152	69.1	31.3	2.93	1.72	1.18	---	---	5
6	---	---	0.705B	4.33B	145	69.1	31.0	2.46	1.51	1.17	---	---	6
7	---	---	0.668B	5.53B	160	68.7	30.5	2.14	1.39	1.17	---	---	7
8	---	---	0.782B	4.63B	193	67.7	29.7	1.91	1.27	1.18	---	---	8
9	---	---	0.772B	4.81B	210	66.7	27.2	1.60	1.23	1.16	---	---	9
10	---	---	0.729B	4.59B	212	63.3	27.0	1.53	1.06	1.15	---	---	10
11	---	---	0.644B	4.40B	202	65.7	26.2	1.59	1.06	1.13	---	---	11
12	---	---	0.541B	3.97B	188	104	24.0	1.50	1.06	1.11	---	---	12
13	---	---	0.478B	3.36B	175	140	22.1	1.42	1.03	1.14	---	---	13
14	---	---	0.507B	2.95B	165	139	19.8	1.27	0.909	1.17	---	---	14
15	---	---	0.542B	2.66B	156	129	17.8	1.15	0.881	1.16	---	---	15
16	---	---	0.625B	2.73B	146	119	16.2	1.03	0.861	1.14 B	---	---	16
17	---	---	0.631B	2.74B	136	109	14.7	0.996	0.738	0.969B	---	---	17
18	---	---	0.666B	3.25B	127	102	13.6	0.960	0.769	1.27 B	---	---	18
19	---	---	0.774B	3.76B	118	96.7	12.7	0.838	0.752	1.66 B	---	---	19
20	---	---	0.781B	25.0 B	110	91.5	12.1	0.822	0.724	1.57 B	---	---	20
21	---	---	0.768B	35.7 B	104	84.9	11.5	0.803	0.715	1.34 B	---	---	21
22	---	---	0.710B	53.6 B	98.7	77.8	10.6	0.786	0.712	1.37 B	---	---	22
23	---	---	0.541B	69.5 B	93.4	70.4	10.0	0.819	0.704	1.14 B	---	---	23
24	---	---	0.443B	79.6	87.5	63.0	9.61	0.748	0.687	1.80 B	---	---	24
25	---	---	0.455B	89.4	84.4	55.9	8.48	0.802	0.611	1.53 B	---	---	25
26	---	---	0.431B	85.3	80.4	48.7	7.69	0.839	0.983	1.30 B	---	---	26
27	---	---	0.430B	72.7	75.1	42.0	6.94	0.825	1.12	1.40 B	---	---	27
28	---	---	0.553B	73.8	71.3	35.1	6.25	0.828	1.02	1.20 B	---	---	28
29	---	---	0.813B	75.6	67.7	30.0	5.38	0.832	1.02	1.20 B	---	---	29
30	---		1.07 B	81.8	64.8	27.0	4.78	1.43	1.16	1.10 B	---	---	30
31	---		1.27 B		61.3		4.16	2.36		1.00 B		---	31
TOTAL	---	---	20.887	813.54	3 975.1	2 318.9	568.79	49.018	34.206	38.179	---	---	TOTAL
MEAN	---	---	0.674	27.1	128	77.3	18.3	1.58	1.14	1.23	---	---	MEAN
MAX	---	---	1.27	89.4	212	140	33.8	3.86	2.33	1.80	---	---	MAX
MIN	---	---	0.430	1.55	61.3	27.0	4.16	0.740	0.611	0.969	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 31.9
MAXIMUM DAILY, 212 ON MAY 10
MINIMUM DAILY, 0.430B ON MAR 27
MAXIMUM INSTANTANEOUS,
215 AT 23:41 MST ON MAY 09

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 12 36 N
LONG 111 41 36 W
DRAINAGE AREA, 5 570 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	49 100
FEB	---	AUG	4 240
MAR	1 800	SEP	2 960
APR	70 300	OCT	3 300
MAY	343 000	NOV	---
JUN	200 000	DEC	---

TOTAL DISCHARGE, 675 000 dam³

MAGRATH IRRIGATION DISTRICT CANAL NEAR SPRING COULEE - STATION NO. 05AE021

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0	0	0	0.937	1.72	0.566	1.06	---	---	1
2	---	---	---	0	0	0	0.988	1.75	0.576	1.03	---	---	2
3	---	---	---	0	0	0	1.08	1.63	0.581	0.959	---	---	3
4	---	---	---	0	0	0	1.22	1.44	0.753	0.907	---	---	4
5	---	---	---	0	0	0	1.43	1.23	0.836	0.859	---	---	5
6	---	---	---	0	0	0	1.60	1.13	0.902	0.839	---	---	6
7	---	---	---	0	0	0	1.62	1.21	0.874	0.721	---	---	7
8	---	---	---	0	0	0	1.65	1.30	0.856	0.666	---	---	8
9	---	---	---	0	0	0	1.72	1.29	0.861	0.586	---	---	9
10	---	---	---	0	0	0	1.94	1.22	0.931	0.506	---	---	10
11	---	---	---	0	0	0	2.01	1.13	1.05	0.393	---	---	11
12	---	---	---	0	0	0	2.14	1.09	1.06	0.340	---	---	12
13	---	---	---	0	0	0	2.38	1.03	1.01	0.271	---	---	13
14	---	---	---	0	0	0	2.22	0.963	0.951	0.158	---	---	14
15	---	---	---	0	0	0	2.22	0.954	0.951	0.038	---	---	15
16	---	---	---	0	0	0	2.31	0.996	0.678	0.005	---	---	16
17	---	---	---	0	0	0	2.61	0.988	0.752	0	---	---	17
18	---	---	---	0	0	0.141	2.58	0.841	0.966	0	---	---	18
19	---	---	---	0	0	0.217	2.39	0.785	0.984	0	---	---	19
20	---	---	---	0	0	0.267	2.34	0.690	1.05	0	---	---	20
21	---	---	---	0	0	0.300	2.30	0.648	1.07	0	---	---	21
22	---	---	---	0	0.170	0.316	2.25	0.641	1.08	0	---	---	22
23	---	---	---	0	0.263	0.325	2.17	0.656	1.08	0	---	---	23
24	---	---	---	0	0.194	0.334	2.12	0.695	1.10	0	---	---	24
25	---	---	---	0	0	0.523	1.95	0.684	1.14	0	---	---	25
26	---	---	---	0	0	0.591	1.62	0.678	1.18	0	---	---	26
27	---	---	0A	0	0	0.657	1.60	0.667	1.18	0	---	---	27
28	---	---	0	0	0	0.785	1.54	0.656	1.20	0	---	---	28
29	---	---	0	0	0	0.856	1.52	0.607	1.18	0	---	---	29
30	---		0	0	0	0.922	1.66	0.567	1.13	0 A	---	---	30
31	---		0		0		1.77	0.559		0 E		---	31
TOTAL	---	---	---	0	0.627	6.234	57.885	30.445	28.528	9.338	---	---	TOTAL
MEAN	---	---	---	0	0.020	0.208	1.87	0.982	0.951	0.301	---	---	MEAN
MAX	---	---	---	0	0.263	0.922	2.61	1.75	1.20	1.06	---	---	MAX
MIN	---	---	---	0	0	0	0.937	0.559	0.566	0	---	---	MIN

SUMMARY FOR THE MONTHS APR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.622
MAXIMUM DAILY, 2.61 ON JUL 17
MINIMUM DAILY, 0 ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 20 55 N
LONG 113 03 15 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	5 000
FEB	---	AUG	2 630
MAR	---	SEP	2 460
APR	0	OCT	807
MAY	54.2	NOV	---
JUN	539	DEC	---

TOTAL DISCHARGE, 11 500 dam³

MALIGNE RIVER NEAR JASPER - STATION NO. 07AA004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	4.07	2.68	2.81	2.72	4.22	44.3	46.3	42.5	43.3	17.5	9.90	6.33	1
2	3.93	2.77	2.83	2.69	4.27	44.9	50.9	42.4	43.0	16.9	8.85	6.31	2
3	3.94	2.90	2.78	2.72	4.31	44.3	64.9	41.7	42.7	16.4	8.79	6.15	3
4	4.04	2.96	2.77	2.74	4.41	43.9	74.3	41.6	42.2	16.1	9.83	6.16	4
5	4.00	2.98	2.82	2.74	6.04	42.9	74.2	41.7	42.2	16.6	8.46	6.19	5
6	3.95	2.99	2.82	2.84	9.58	42.1	77.4	41.8	42.1	16.4	7.45	6.20	6
7	3.92	3.02	2.82	2.83	9.26	41.6	86.1	41.8	41.4	15.8	9.12	6.16	7
8	3.91	3.02	2.83	2.73	8.63	41.7	85.9	41.9	41.3	15.3	7.88	6.07	8
9	3.87	3.03	2.72	2.57	8.34	41.5	87.6	42.2	41.2	15.0	7.97	5.96	9
10	3.61	3.03	2.80	2.51	8.01	41.7	86.1	41.9	41.2	14.6	7.99	5.77	10
11	3.46	3.05	2.81	2.56	7.94	43.4	82.8	41.8	41.1	14.1	6.45	5.53	11
12	3.48	3.04	2.76	2.62	8.09	44.7	82.0	41.8	41.0	13.7	8.72	5.28	12
13	3.73	2.87	2.73	2.61	8.09	48.1	83.9	41.6	40.9	13.3	9.75	4.96	13
14	3.74	2.75	2.84	2.63	7.97	47.6	83.5	42.2	40.6	12.8	9.55	4.97	14
15	3.52	2.75	2.83	2.78	7.93	47.3	80.4	42.1	40.5	12.0	9.10	5.52	15
16	3.47	2.75	2.84	2.81	8.05	48.2	76.1	42.1	42.1	11.7	8.40	5.43	16
17	3.28	2.77	2.84	3.05	8.37	48.8	71.7	42.2	42.8	11.1	8.34	5.27	17
18	3.11	2.78	2.84	3.41	8.71	49.6	66.5	41.9	42.0	11.1	7.66	5.06	18
19	3.14	2.85	2.87	3.75	9.12	48.7	61.7	42.0	41.2	10.7	7.48	4.60	19
20	3.08	2.91	2.86	4.06	9.71	48.5	56.6	41.9	40.6	10.3	6.21	4.22	20
21	3.26	2.92	2.82	4.60	10.9	48.4	52.3	42.3	40.1	10.1	7.06	4.17	21
22	3.36	2.94	2.81	4.93	11.5	49.4	48.8	43.2	39.4	9.84	7.21	4.22	22
23	3.27	2.94	2.59	4.66	12.3	51.2	47.0	45.7	37.8	9.44	6.26	4.26	23
24	3.14	2.95	2.60	4.74	13.9	50.1	45.9	45.2	35.1	9.24	5.21	4.30	24
25	3.14	2.94	2.67	4.67	15.6	48.7	44.8	44.6	31.8	9.61	6.39	4.32	25
26	3.12	2.91	2.71	4.51	18.8	47.9	44.3	44.3	28.3	11.8	6.42	4.38	26
27	3.08	2.81	2.68	4.43	21.8	47.1	44.0	44.0	25.1	11.6	6.44	4.59	27
28	3.08	2.79	2.62	4.27	24.8	46.2	43.5	43.7	22.6	11.4	6.53	4.46	28
29	3.02		2.61	4.04	28.7	45.3	42.9	43.3	20.3	11.0	6.49	4.13	29
30	2.89		2.58	4.08	34.7	45.6	42.5	44.3	18.6	10.7	6.38	3.97	30
31	2.73		2.69		41.4		42.7	43.8		10.3		4.00	31
TOTAL	107.34	81.10	85.40	102.30	385.45	1 383.7	1 977.6	1 323.2	1 133.5	396.43	230.31	158.94	TOTAL
MEAN	3.46	2.90	2.75	3.41	12.4	46.1	63.8	42.7	37.8	12.8	7.68	5.13	MEAN
MAX	4.07	3.05	2.87	4.93	41.4	51.2	87.6	45.7	43.8	17.5	9.90	6.33	MAX
MIN	2.73	2.68	2.58	2.51	4.22	41.5	42.5	41.6	18.6	9.24	5.21	3.97	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 20.2
MAXIMUM DAILY, 87.6 ON JUL 09
MINIMUM DAILY, 2.51 ON APR 10
MAXIMUM INSTANTANEOUS,
89.1 AT 22:25 MST ON JUL 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 55 51 N
LONG 118 01 34 W
DRAINAGE AREA, 900 km²

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	9 270	JUL	171 000
FEB	7 010	AUG	114 000
MAR	7 380	SEP	97 900
APR	8 840	OCT	34 300
MAY	33 300	NOV	19 900
JUN	120 000	DEC	13 700

TOTAL DISCHARGE, 637 000 dam³

MAMAWI LAKE CHANNEL AT OLD DOG CAMP - STATION NO. 07KF003

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	208.279	208.047	---	209.285	---	---	209.246	---	---	208.497	1
2	---	---	208.311	208.132	---	209.251	---	209.494A	209.262	---	---	208.500	2
3	---	---	208.359	208.128	---	209.297	---	209.585	209.234	---	---	208.510	3
4	---	---	208.337	208.151	---	209.340	---	209.533	209.223	---	---	208.494	4
5	208.762A	---	208.332	208.175	---	209.339	---	209.535	209.223	---	---	208.472	5
6	---	---	208.304	208.160	---	209.381	209.704A	209.574	209.192	---	---	208.451	6
7	---	---	208.253	208.190	---	209.407	209.715	209.424	209.164	---	---	208.457	7
8	---	---	208.256	208.262	---	209.448	209.689	209.546	209.162	---	---	208.464	8
9	---	208.492A	208.216	208.346	---	209.449	209.666	209.546	209.181	---	---	208.463	9
10	---	208.491	208.265	208.427	209.060A	209.444	209.663	209.537	209.200	---	---	208.479	10
11	---	208.445	208.306	208.459	---	209.554	209.662	209.540	209.216	---	---	208.491	11
12	---	208.439	208.265	208.478	---	209.679	209.662	209.533	209.190	---	---	208.510	12
13	---	208.410	208.276	208.499	---	209.557	209.628	209.512	209.153	---	---	208.538	13
14	---	208.427	208.286	208.479	209.101A	---	209.682	209.461	209.161	---	---	208.554	14
15	---	208.410	208.260	208.467	209.146	---	209.694	209.414	209.146	---	---	208.553	15
16	---	208.401	208.222	208.436	209.160	---	209.710	209.414	209.136	---	---	208.573	16
17	---	208.397	208.173	208.404	209.160	---	209.700	209.427	209.110	---	---	---	17
18	---	208.399	208.145	208.388	209.179	---	209.698	209.367	209.103	---	---	---	18
19	---	208.407	208.135	208.350	209.189	---	209.700A	209.376	209.121	---	208.690A	---	19
20	---	208.397	208.130	208.401	209.179	---	209.647	209.370	209.146	---	208.727	---	20
21	---	208.393	208.117	208.407	209.183	209.820A	209.673	209.393	209.094	---	208.724	---	21
22	---	208.404	208.093	208.436	209.192	---	---	209.423	209.017	---	208.662	---	22
23	---	208.371	208.059	208.560	209.189	---	---	209.361	209.020	---	208.635	---	23
24	---	208.378	208.061	208.736	209.181	---	---	209.318	209.026	---	208.615	---	24
25	---	208.390	208.054	208.935	209.188	---	---	209.358	209.013	---	208.606	---	25
26	---	208.334	208.034	209.033	209.200	---	---	209.338	---	---	208.594	---	26
27	---	208.348	208.028	209.177	209.305	---	---	209.324	---	---	208.585	---	27
28	---	208.324	208.002	209.444	209.254	---	---	209.325	---	---	208.568	---	28
29	---		207.996	209.593	209.227	---	---	---	---	---	208.551	---	29
30	---		208.031	209.646	209.227	---	---	---	---	---	208.517	---	30
31	---		208.019		209.253	---	---	209.266	---	---		---	31
MEAN	---	---	208.181	208.545	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	208.359	209.646	---	---	---	---	---	---	---	---	MAX
MIN	---	---	207.996	208.047	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 38 00 N
LONG 111 20 00 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1967

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

MANATOKAN CREEK NEAR IRON RIVER - STATION NO. 06AC009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0B	0 B	0	0	0	0	0	0	0B	---	1
2	---	---	0B	0 B	0	0	0	0	0	0	---	---	2
3	---	---	0B	0.018B	0	0	0	0	0	0	---	---	3
4	---	---	0B	0.014B	0	0	0	0	0	0	---	---	4
5	---	---	0B	0.009B	0	0	0	0	0	0	---	---	5
6	---	---	0B	0.007B	0	0	0	0	0	0	---	---	6
7	---	---	0B	0.002B	0	0	0	0	0	0	---	---	7
8	---	---	0B	0 B	0	0	0	0	0	0	---	---	8
9	---	---	0B	0 B	0	0	0	0	0	0	---	---	9
10	---	---	0B	0 B	0	0	0	0	0	0	---	---	10
11	---	---	0B	0 B	0	0	0	0	0	0	---	---	11
12	---	---	0B	0	0	0	0	0	0	0	---	---	12
13	---	---	0B	0	0	0	0	0	0	0	---	---	13
14	---	---	0B	0	0	0	0	0	0	0	---	---	14
15	---	---	0B	0	0	0	0	0	0	0	---	---	15
16	---	---	0B	0	0	0	0	0	0	0	---	---	16
17	---	---	0B	0	0	0	0	0	0	0	---	---	17
18	---	---	0B	0	0	0	0	0	0	0	---	---	18
19	---	---	0B	0	0	0	0	0	0	0	---	---	19
20	---	---	0B	0	0	0	0	0	0	0	---	---	20
21	---	---	0B	0	0	0	0	0	0	0	---	---	21
22	---	---	0B	0	0	0	0	0	0	0	---	---	22
23	---	---	0B	0	0	0	0	0	0	0	---	---	23
24	---	---	0B	0	0	0	0	0	0	0	---	---	24
25	---	---	0B	0	0	0	0	0	0	0	---	---	25
26	---	---	0B	0	0	0	0	0	0	0	---	---	26
27	---	---	0B	0	0	0	0	0	0	0	---	---	27
28	---	---	0B	0	0	0	0	0	0	0	---	---	28
29	---	---	0B	0	0	0	0	0	0	0	---	---	29
30	---		0B	0	0	0	0	0	0	0B	---	---	30
31	---		0B		0		0	0		0B		---	31
TOTAL	---	---	0	0.050	0	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0	0.002	0	0	0	0	0	0	---	---	MEAN
MAX	---	---	0	0.018	0	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0
MAXIMUM DAILY, 0.018B ON APR 03
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS, 0.053B AT 15:40 MST ON APR 03

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 26 59 N
LONG 110 56 13 W
DRAINAGE AREA, 449 km²

B - ICE CONDITIONS

REGULATED SINCE 1983

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	0	SEP	0
APR	4.32	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 4.32 dam³

MANYBERRIES CREEK AT BRODIN'S FARM - STATION NO. 05AF010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	0 B	1.40 B	0.806	0.126	0.076	0	0	0	0	---	---	1
2	---	0 B	1.80 B	0.590	0.119	0.050	0	0	0	0	---	---	2
3	---	0 B	3.80 B	0.571	0.120	0.039	0	0	0	0	---	---	3
4	---	0 B	6.00 B	0.464	0.112	0.050	0	0	0	0	---	---	4
5	---	0 B	7.82 B	0.300	0.101	0.038	0	0	0	0	---	---	5
6	---	0 B	7.43 B	0.212	0.116	0.030	0	0	0	0	---	---	6
7	---	0 B	7.11 B	0.151	0.104	0.020	0	0	0	0	---	---	7
8	---	0 B	5.00 B	0.112	0.107	0.010	0	0	0	0	---	---	8
9	---	0 B	3.00 B	0.080	0.121	0.006	0	0	0	0	---	---	9
10	---	0 B	0.940B	0.062	0.118	0.004	0	0	0	0	---	---	10
11	---	0 B	0.708B	0.069	0.170	0.001	0	0	0	0	---	---	11
12	---	0.008B	0.500B	0.063	0.173	0	0	0	0	0	---	---	12
13	---	0.002B	0.385B	0.054	0.168	0.006	0	0	0	0	---	---	13
14	---	0 B	0.250B	0.040	0.180	0.004	0	0	0	0	---	---	14
15	---	0 B	0.206B	0.081	0.173	0.018	0	0	0	0	---	---	15
16	---	0 B	0.198B	0.072	0.183	0.021	0	0	0	0	---	---	16
17	---	0 B	0.245	0.096	0.179	0.005	0	0	0	0	---	---	17
18	---	0 B	0.392	0.084	0.185	0	0	0	0	0	---	---	18
19	---	0 B	1.27	0.083	0.199	0	0	0	0	0	---	---	19
20	---	0 B	2.93	0.075	0.220	0	0	0	0	0	---	---	20
21	---	0 B	4.14	0.063	0.251	0	0	0	0	0	---	---	21
22	---	0.020B	1.35	0.071	0.188	0	0	0	0	0	---	---	22
23	---	0.040B	0.762	0.067	0.091	0	0	0	0	0	---	---	23
24	---	0.064B	0.416	0.066	0.102	0	0	0	0	0	---	---	24
25	---	0.200B	0.310	0.112	2.91	0	0	0	0	0	---	---	25
26	---	0.800B	0.289	0.126	1.84	0	0	0	0	0	---	---	26
27	---	1.16 B	0.408	0.120	0.441	0	0	0	0	0	---	---	27
28	---	1.38 B	1.06	0.118	0.245	0	0	0	0	0	---	---	28
29	---		1.64	0.123	0.170	0	0	0	0	0	---	---	29
30	---		1.59	0.126	0.145	0	0	0	0	0	---	---	30
31	0B		1.21		0.105		0	0		0A		---	31
TOTAL	---	3.674	64.639	5.057	9.462	0.378	0	0	0	0	---	---	TOTAL
MEAN	---	0.131	2.09	0.169	0.305	0.013	0	0	0	0	---	---	MEAN
MAX	---	1.38	7.82	0.806	2.91	0.076	0	0	0	0	---	---	MAX
MIN	---	0	0.198	0.040	0.091	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS FEB TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.305
MAXIMUM DAILY, 7.82B ON MAR 05
MINIMUM DAILY, 0B ON FEB 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 21 30 N
LONG 110 43 30 W
DRAINAGE AREA, 339 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	317	AUG	0
MAR	5 580	SEP	0
APR	437	OCT	0
MAY	818	NOV	---
JUN	32.7	DEC	---

TOTAL DISCHARGE, 7 180 dam³

MARIE LAKE NEAR COLD LAKE - STATION NO. 06AC005

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	573.558	573.667	573.675	573.676	573.596	573.510	573.437A	---	1
2	---	---	---	---	573.564	573.672	573.663	573.669	573.595	573.498	---	---	2
3	---	---	---	---	573.568	573.678	573.697	573.661	573.591	573.496	---	---	3
4	---	---	---	---	573.576	573.677	573.712	573.657	573.586	573.489	---	---	4
5	---	---	---	573.494	573.580	573.680	573.709	573.655	573.578	573.484	---	---	5
6	---	---	---	573.493	573.583	573.675	573.707	573.652	573.581	573.494	---	---	6
7	---	---	573.478	573.492	573.593	573.679	573.707	573.646	573.573	573.493	---	---	7
8	---	---	---	573.490	573.600	573.682	573.706	573.636	573.572	573.490	---	---	8
9	---	---	---	573.489	573.605	573.684	573.706	573.632	573.574	573.489	---	---	9
10	---	---	---	573.489	573.610	573.685	573.710	573.631	573.571	573.470	---	---	10
11	---	---	---	573.489	573.614	573.701	573.710	573.633	573.567	573.475	---	---	11
12	---	---	---	573.489	573.619	573.705	573.708	573.632	573.575	573.474	---	---	12
13	---	---	---	573.490	573.622	573.707	573.708	573.628	573.575	573.474	---	---	13
14	---	---	---	573.494	573.627	573.704	573.700	573.627	573.573	573.475	---	---	14
15	---	---	---	573.496	573.631	573.700	573.689	573.626	573.573	573.469	---	---	15
16	---	---	---	573.496	573.635	573.701	573.685	573.620	573.569	573.462	---	---	16
17	---	---	---	573.497	573.639	573.700	573.685	573.620	573.560	573.470	---	---	17
18	---	---	---	573.499	573.646	573.698	573.677	573.620	573.562	573.466	---	---	18
19	---	---	---	573.501	573.649	573.698	573.671	573.619	573.559	573.462	---	---	19
20	---	---	---	573.503	573.653	573.696	573.667	573.619	573.554	573.460	---	---	20
21	---	---	---	573.504	573.656	573.694	573.664	573.621	573.552	573.457	---	---	21
22	---	---	---	573.510	573.659	573.693	573.663	573.625	573.553	573.454	---	---	22
23	---	---	---	573.515	573.662	573.692	573.661	573.617	573.553	573.457	---	---	23
24	---	---	---	573.518	573.664	573.688	573.658	573.607	573.547	573.454	---	---	24
25	---	---	---	573.528	573.667	573.686	573.656	573.602	573.542	573.450	---	---	25
26	---	---	---	573.534	573.671	573.684	573.653	573.600	573.535	573.447	---	---	26
27	---	---	---	573.540	573.674	573.687	573.666	573.596	573.525	573.453	---	---	27
28	---	---	---	573.544	573.675	573.684	573.682	573.593	573.526	573.449	---	---	28
29	---		---	573.552	573.675	573.681	573.680	573.590	573.521	573.455	---	---	29
30	---		---	573.553	573.676	573.678	573.678	573.583	573.515	573.452	---	---	30
31	---		---		573.682		573.678	573.594		573.449		---	31
MEAN	---	---	---	---	573.630	573.689	573.685	573.625	573.562	573.470	---	---	MEAN
MAX	---	---	---	---	573.682	573.707	573.712	573.676	573.596	573.510	---	---	MAX
MIN	---	---	---	---	573.558	573.667	573.653	573.583	573.515	573.447	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 573.712 ON JUL 04

MAXIMUM INSTANTANEOUS,
573.722 AT 18:00 MST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 35 35 N
LONG 110 18 15 W

A - MANUAL GAUGE
E - ESTIMATED

DRAINAGE AREA,
476 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

MARMOT CREEK MAIN STEM NEAR SEEBE - STATION NO. 05BF016

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.100E	1.99	0.598	0.333	0.102	0.045	---	---	1
2	---	---	---	---	0.140E	2.21	0.567	0.309	0.096	0.046	---	---	2
3	---	---	---	---	0.160E	1.80	0.523	0.284	0.094	0.046	---	---	3
4	---	---	---	---	0.190E	1.51	0.493	0.261	0.090	0.067	---	---	4
5	---	---	---	---	0.200E	1.26	0.462	0.241	0.086	0.085	---	---	5
6	---	---	---	---	0.190E	1.09	0.451	0.220	0.081	0.062	---	---	6
7	---	---	---	---	0.170E	0.937	0.507	0.205	0.076	0.056	---	---	7
8	---	---	---	---	0.120E	0.836	0.516	0.192	0.072	0.057	---	---	8
9	---	---	---	---	0.106E	0.820	0.505	0.181	0.070	0.059	---	---	9
10	---	---	---	---	0.100E	0.898	0.476	0.171	0.066	0.061	---	---	10
11	---	---	---	---	0.100E	0.966	0.436	0.166	0.064	0.057	---	---	11
12	---	---	---	---	0.100E	0.854	0.402	0.168	0.066	0.056	---	---	12
13	---	---	---	---	0.102E	0.730	0.369	0.158	0.069	0.053	---	---	13
14	---	---	---	---	0.105E	0.631	0.340	0.148	0.065	0.048	---	---	14
15	---	---	---	---	0.100E	0.596	0.312	0.140	0.063	0.048	---	---	15
16	---	---	---	---	0.106E	0.613	0.287	0.137	0.062	0.047	---	---	16
17	---	---	---	---	0.110A	0.717	0.265	0.134	0.060	0.043	---	---	17
18	---	---	---	---	0.130	0.785	0.249	0.140	0.058	0.044	---	---	18
19	---	---	---	---	0.132	0.780	0.239	0.130	0.057	0.044	---	---	19
20	---	---	---	---	0.139	0.780	0.215	0.122	0.057	0.040	---	---	20
21	---	---	---	---	0.159	0.773	0.196	0.128	0.056	0.045	---	---	21
22	---	---	---	---	0.181	0.778	0.181	0.128	0.055	0.043	---	---	22
23	---	---	---	---	0.259	0.879	0.177	0.119	0.052	0.040	---	---	23
24	---	---	---	---	0.369	0.964	0.186	0.122	0.049	0.042	---	---	24
25	---	---	---	---	1.32	0.944	0.344	0.123	0.047	0.042A	---	---	25
26	---	---	---	---	1.82	0.878	0.463	0.119	0.046	0.040E	---	---	26
27	---	---	---	---	1.47	0.806	0.508	0.114	0.047	0.040E	---	---	27
28	---	---	---	---	1.21	0.727	0.483	0.111	0.047	0.040E	---	---	28
29	---	---	---	---	1.20	0.640	0.444	0.110	0.046	0.040E	---	---	29
30	---		---	---	1.38	0.613	0.402	0.111	0.045	0.040E	---	---	30
31	---		---		1.42		0.367	0.107		0.040E		---	31
TOTAL	---	---	---	---	13.397	28.785	11.953	5.132	1.944	1.516	---	---	TOTAL
MEAN	---	---	---	---	0.432	0.960	0.386	0.166	0.065	0.049	---	---	MEAN
MAX	---	---	---	---	1.82	2.21	0.598	0.333	0.102	0.085	---	---	MAX
MIN	---	---	---	---	0.100	0.596	0.177	0.107	0.045	0.040	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.341
MAXIMUM DAILY, 2.21 ON JUN 02
MINIMUM DAILY, 0.040 ON OCT 20
MAXIMUM INSTANTANEOUS,
2.49 AT 21:05 MST ON JUN 01

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 57 01 N
LONG 115 09 08 W
DRAINAGE AREA, 9.4 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	1 030
FEB	---	AUG	443
MAR	---	SEP	168
APR	---	OCT	131
MAY	1 160	NOV	---
JUN	2 490	DEC	---

TOTAL DISCHARGE, 5 420 dam³

MARTINEAU RIVER ABOVE COLD LAKE - STATION NO. 06AF008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	5.95B	2.85B	4.33B	7.96B	21.8	16.9	10.1	7.58	4.95	3.05	3.32B	1.75B	1
2	5.60B	3.10B	4.51B	8.06B	21.6	16.8	10.0	7.55	4.76	3.06	3.20B	1.61B	2
3	5.25B	3.30B	4.74B	8.06B	21.6	15.7	11.4	7.61	3.98	3.05	3.17B	1.62B	3
4	5.00B	3.46B	4.86B	8.14B	21.8	14.8	13.1	7.72	3.91	3.02	3.15B	1.67B	4
5	5.10B	3.68B	4.83B	8.71B	21.8	14.6	13.1	6.99	3.99	3.02	3.00B	1.71B	5
6	5.45B	3.99B	4.96B	9.47B	21.6	14.4	12.6	6.76	3.63	3.01	2.90B	1.77B	6
7	5.66B	4.16B	4.91B	10.0 B	21.6	14.1	12.6	6.61	3.79	3.04	2.83B	1.76B	7
8	6.02B	4.38B	5.21B	10.1 B	22.7	13.3	12.5	6.56	3.70	3.08	2.78B	1.73B	8
9	5.95B	4.30B	5.45B	10.3 B	23.7	12.7	12.1	6.58	3.87	3.11	2.61B	1.67B	9
10	6.02B	3.70B	5.64B	9.45B	24.6	11.9	11.5	6.39	3.96	3.12	2.35B	1.70B	10
11	5.91B	4.03B	6.01B	9.17B	24.7	12.4	11.4	6.15	3.75	3.13	2.20B	1.63B	11
12	5.02B	4.25B	6.16B	8.82B	24.1	12.5	11.4	6.12	3.76	3.11	2.22B	1.57B	12
13	5.14B	4.11B	6.44B	8.92B	23.7	14.8	10.8	5.92	3.88	3.08	2.24B	1.53B	13
14	5.30B	3.82B	6.82B	9.52B	22.9	14.9	10.7	5.94	3.80	3.07	2.27B	1.48B	14
15	5.42B	3.47B	7.05B	9.90B	23.0	12.6	11.2	6.08	3.80	3.09	2.29B	1.44B	15
16	5.53B	3.12B	7.10B	10.8 B	23.1	11.4	11.2	5.59	3.73	3.09	2.35B	1.39B	16
17	5.53B	3.01B	7.24B	11.6 B	22.5	11.8	10.4	5.47	3.43	3.07	2.41B	1.36B	17
18	5.46B	3.40B	7.28B	12.7 B	22.4	12.1	10.1	5.25	3.12	3.08	2.44B	1.33B	18
19	5.32B	3.19B	7.11B	13.8 B	22.5	11.9	10.1	4.82	3.73	3.08	2.41B	1.28B	19
20	5.23B	2.18B	7.10B	14.4 B	22.2	12.1	9.89	4.55	3.65	3.10	2.38B	1.26B	20
21	5.26B	2.18B	7.33B	13.3 B	21.8	12.1	9.53	4.74	3.52	3.13B	2.31B	1.26B	21
22	5.23B	2.47B	7.34B	13.2	21.6	11.8	8.80	4.80	3.70	3.40B	2.30B	1.30B	22
23	5.35B	2.59B	6.95B	14.2	21.0	11.4	8.73	4.70	3.75	3.25B	2.12B	1.33B	23
24	5.32B	2.68B	7.07B	15.4	20.0	11.1	8.44	4.88	3.30	3.25B	1.96B	1.32B	24
25	5.27B	3.33B	7.33B	18.1	20.0	11.6	8.49	5.11	3.26	3.22B	1.78B	1.32B	25
26	5.17B	3.64B	7.50B	20.2	19.4	11.0	8.33	4.90	3.28	3.18B	1.78B	1.30B	26
27	4.79B	3.81B	7.57B	22.3	19.3	10.8	8.19	4.68	3.37	3.21B	1.83B	1.27B	27
28	4.91B	4.10B	7.67B	23.0	18.7	10.8	8.69	4.53	3.55	3.26B	1.89B	1.25B	28
29	3.90B		7.80B	22.9	17.7	10.7	9.07	4.31	3.46	3.33B	1.94B	1.23B	29
30	3.90B		8.02B	22.4	17.0	10.4	8.43	4.31	3.07	3.40B	1.90B	1.21B	30
31	2.70B		8.09B		16.5		7.72	4.46		3.48B		1.20B	31
TOTAL	159.54	94.00	200.50	384.88	666.9	383.4	320.61	177.66	111.45	97.57	72.41	45.25	TOTAL
MEAN	5.15	3.36	6.47	12.8	21.5	12.8	10.3	5.73	3.72	3.15	2.41	1.46	MEAN
MAX	6.02	4.38	8.09	23.0	24.7	16.9	13.1	7.72	4.95	3.48	3.32	1.77	MAX
MIN	2.70	2.18	4.33	7.96	16.5	10.4	7.72	4.31	3.07	3.01	1.78	1.20	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 7.44
MAXIMUM DAILY, 24.7 ON MAY 11
MINIMUM DAILY, 1.20B ON DEC 31
MAXIMUM INSTANTANEOUS,
25.0 AT 23:02 MST ON MAY 10

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 41 10 N
LONG 110 01 35 W
DRAINAGE AREA, 5 350 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	13 800	JUL	27 700
FEB	8 120	AUG	15 300
MAR	17 300	SEP	9 630
APR	13 300	OCT	8 430
MAY	57 600	NOV	6 260
JUN	33 100	DEC	3 910

TOTAL DISCHARGE, 234 000 dam³

MASKWA CREEK NO. 1 ABOVE BEARHILLS LAKE - STATION NO. 05FA014

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.90	0.020	0.014	0.500E	0.009	0.012	0.001	0.006	---	1
2	---	---	0 B	1.61	0.020	0.014	0.800E	0.022	0.019	0.002	---	---	2
3	---	---	0 B	1.03	0.020	0.013	1.31	0.020	0.010	0.001	---	---	3
4	---	---	0.001B	0.637	0.019	0.054	0.544	0.011	0.008	0.001	---	---	4
5	---	---	0.004B	0.479	0.018	0.034	0.572	0.009	0.008	0.010	---	---	5
6	---	---	0.007B	0.386	0.017	0.032	1.07	0.008	0.006	0.013	---	---	6
7	---	---	0.011B	0.328	0.016	0.024	1.09	0.004	0.003	0.017	---	---	7
8	---	---	0.010B	0.292	0.015	0.043	0.798	0.002	0.001	0.020	---	---	8
9	---	---	0.009B	0.236	0.015	0.050	0.667	0.001	0.001	0.016	---	---	9
10	---	---	0.008B	0.168	0.014	0.054	0.388	0.001	0.001	0.010	---	---	10
11	---	---	0.007B	0.141	0.014	0.056	0.318	0.001	0.001	0.012	---	---	11
12	---	---	0.006B	0.120	0.014	0.077	0.245	0.001	0.001	0.014	---	---	12
13	---	---	0.005B	0.100	0.013	0.074	0.175	0.001	0.001	0.012	---	---	13
14	---	---	0.004B	0.080	0.013	0.055	0.145	0.001	0.001	0.011	---	---	14
15	---	---	0.004B	0.067	0.012	0.046	0.113	0.001	0.001	0.010	---	---	15
16	---	---	0.006B	0.058	0.012	0.047	0.126	0.001	0.001	0.008	---	---	16
17	---	---	0.010B	0.055	0.011	0.052	0.078	0.001	0.001	0.007	---	---	17
18	---	---	0.020B	0.051	0.011	0.057	0.074	0.001	0.001	0.006	---	---	18
19	---	---	0.030B	0.043	0.011	0.050	0.070	0.001	0.001	0.004	---	---	19
20	---	---	0.026B	0.040	0.011	0.049	0.066	0.001	0.001	0.004	---	---	20
21	---	---	0.020B	0.036	0.026	0.044	0.059	0.001	0.001	0.006	---	---	21
22	---	---	0.018B	0.033	0.025	0.040	0.053	0.001	0.001	0.007	---	---	22
23	---	---	0.018B	0.056	0.023	0.036	0.048	0.001	0.001	0.008	---	---	23
24	---	---	0.030B	0.077	0.023	0.034E	0.042	0.001	0.001	0.009	---	---	24
25	---	---	0.050B	0.033	0.022	0.033E	0.035	0.001	0.001	0.009	---	---	25
26	---	0B	0.150B	0.029	0.020	0.035E	0.036	0.004	0.001	0.009	---	---	26
27	---	0B	0.494B	0.026	0.022	0.038E	0.038	0.007	0.001	0.007	---	---	27
28	---	0B	0.812B	0.025	0.018	0.100E	0.034	0.004	0.001	0.007	---	---	28
29	---		1.21 B	0.024	0.020	0.200E	0.028	0.004	0.001	0.006	---	---	29
30	---		1.59 B	0.022	0.018	0.300E	0.023	0.002	0.001	0.005	---	---	30
31	---		1.93 B		0.015		0.019	0.002		0.005		---	31
TOTAL	---	---	6.290	8.182	0.526	1.755	9.574	0.125	0.088	0.257	---	---	TOTAL
MEAN	---	---	0.203	0.273	0.017	0.059	0.309	0.004	0.003	0.008	---	---	MEAN
MAX	---	---	1.93	1.90	0.026	0.300	1.31	0.022	0.019	0.020	---	---	MAX
MIN	---	---	0	0.022	0.011	0.013	0.019	0.001	0.001	0.001	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.109
MAXIMUM DAILY, 1.93B ON MAR 31
MINIMUM DAILY, 0B ON MAR 01

TYPE OF GAUGE - MANUAL
LOCATION - LAT 52 47 05 N
LONG 113 37 46 W
DRAINAGE AREA, 79.5 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	827
FEB	---	AUG	10.8
MAR	543	SEP	7.60
APR	707	OCT	22.2
MAY	45.4	NOV	---
JUN	152	DEC	---

TOTAL DISCHARGE, 2 320 dam³

MASSY RESERVOIR NEAR ELKWATER - STATION NO. 11AB104

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	27.710E	29.024	28.940	28.907	28.868	28.532	27.224	26.543	---	---	1
2	---	---	27.798E	29.027	28.958	28.900	28.863	28.516	27.226	26.551	---	---	2
3	---	---	27.898E	29.010	28.958	28.900	28.858	28.431	27.226	26.566	---	---	3
4	---	---	28.004E	28.970	28.953	28.899	28.845	28.332	27.225	26.579	---	---	4
5	---	---	28.147E	28.943	28.943	28.894	28.846	28.244	27.225	26.588	---	---	5
6	---	---	28.367E	28.940	28.937	28.893	28.854	28.171	27.222	26.585	---	---	6
7	---	---	28.800A	28.933	28.923	28.897	28.850	28.160	27.218	26.591	---	---	7
8	---	---	28.873E	28.926	28.917	28.898	28.847	28.156	27.218	26.603	---	---	8
9	---	---	28.889E	28.916	28.914	28.899	28.850	28.151	27.216	26.614	---	---	9
10	---	---	28.905E	28.911	28.917	28.900	28.854	28.137	27.217	26.621	---	---	10
11	---	---	28.922E	28.908	28.915	28.894	28.847	28.042	27.219	26.620	---	---	11
12	---	---	28.940E	28.908	28.916	28.889	28.845	27.931	27.216	26.633	---	---	12
13	---	---	28.956E	28.912	28.916	28.901	28.840	27.818	27.212	26.644	---	---	13
14	---	---	28.973E	28.916	28.919	28.917	28.833	27.706	27.210	26.651	---	---	14
15	---	---	28.987A	28.919	28.918	28.914	28.827	27.607	27.120	26.658	---	---	15
16	---	---	28.984E	28.917	28.914	28.911	28.829	27.501	26.979	26.662	---	---	16
17	---	---	28.979E	28.918	28.914	28.910	28.827	27.402	26.830	26.674	---	---	17
18	---	---	28.973E	28.924	28.919	28.905	28.828	27.385	26.674	26.690	---	---	18
19	---	---	28.967E	28.925	28.922	28.901	28.828	27.390	26.517	26.701	---	---	19
20	---	---	28.962E	28.926	28.927	28.896	28.825	27.361	26.483	26.704	---	---	20
21	---	---	28.957E	28.928	28.947	28.892	28.822	27.233	26.492	26.711	---	---	21
22	---	27.664A	28.953E	28.925	28.937	28.891	28.827	27.205	26.496	26.721	---	---	22
23	---	27.669E	28.949E	28.925	28.934	28.889	28.827	27.206	26.503	26.727	---	---	23
24	---	27.674E	28.945E	28.922	28.992	28.889	28.819	27.203	26.510	26.735	---	---	24
25	---	27.678E	28.941E	28.921	29.121	28.888	28.751	27.215	26.517	26.749	---	---	25
26	---	27.683E	28.937E	28.911	28.985	28.884	28.682	27.229	26.517	26.754	---	---	26
27	---	27.688E	28.956A	28.909	28.954	28.883	28.615	27.237	26.518	26.754	---	---	27
28	---	27.693E	29.015	28.907	28.937	28.870	28.559	27.235	26.521	26.757	---	---	28
29	---		29.045	28.911	28.925	28.869	28.531	27.233	26.526	26.768	---	---	29
30	---		29.055	28.919	28.924	28.870	28.514	27.234	26.535	26.774A	---	---	30
31	---		29.042		28.918		28.537	27.227		26.780E		---	31
MEAN	---	---	28.769	28.932	28.939	28.895	28.786	27.691	26.894	26.668	---	---	MEAN
MAX	---	---	29.055	29.027	29.121	28.917	28.868	28.532	27.226	26.780	---	---	MAX
MIN	---	---	27.710	28.907	28.914	28.869	28.531	27.203	26.483	26.543	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 29.121 ON MAY 25
MINIMUM DAILY, 26.483 ON SEP 20
MAXIMUM INSTANTANEOUS, 29.310 AT 00:27 CST ON MAY 25

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 28 04 N
LONG 110 22 12 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA, 22.5 km²

MATZHIWIN CREEK BELOW WARE COULEE - STATION NO. 05CJ012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.360	3.30	6.21	5.98	3.09E	3.50	---	---	1
2	---	---	---	---	0.370	3.24	6.86	6.00	2.97E	3.78	---	---	2
3	---	---	---	---	0.288	3.49	7.63	6.99	2.85E	3.42	---	---	3
4	---	---	---	---	0.180	3.99	8.21	6.60	2.73E	3.30	---	---	4
5	---	---	---	---	0.129	5.28	8.21	6.16	2.61E	3.54	---	---	5
6	---	---	---	---	0.103	5.51	8.04	5.43	2.49A	3.80	---	---	6
7	---	---	---	---	0.091	4.26	7.86	6.26	2.69A	4.04	---	---	7
8	---	---	---	---	0.165	3.82	8.08	5.62	2.81A	3.92	---	---	8
9	---	---	---	---	0.548	3.06	8.78	5.07	2.95A	3.74	---	---	9
10	---	---	---	---	0.441	2.98	8.69	4.78	3.04A	3.60	---	---	10
11	---	---	---	---	0.849	3.14	7.17	4.63	2.79A	3.80	---	---	11
12	---	---	---	---	2.13	2.99	9.48	4.65	2.59A	4.25	---	---	12
13	---	---	---	---	2.92	3.41	7.67	5.41	3.43A	4.10	---	---	13
14	---	---	---	---	2.56	3.90	7.11	5.67	4.06A	2.64	---	---	14
15	---	---	---	---	2.61	3.61	7.62	5.26	4.06A	1.38	---	---	15
16	---	---	---	---	3.48	3.21	8.26	4.95	3.64A	0.894	---	---	16
17	---	---	---	---	3.40	2.69	7.90	5.04	3.82A	0.821	---	---	17
18	---	---	---	---	3.05	2.65	7.09	4.86	3.72A	0.716	---	---	18
19	---	---	---	---	3.34	3.07	6.28	5.18	3.16	0.702	---	---	19
20	---	---	---	---	3.48	2.62	6.98	5.59	3.19	0.572	---	---	20
21	---	---	---	---	4.22	3.16	7.44	5.06	3.44	0.523	---	---	21
22	---	---	---	---	5.08	4.74	8.06	4.08	3.42	0.453	---	---	22
23	---	---	---	---	4.49	4.59	9.03	4.12	3.31	0.409	---	---	23
24	---	---	---	---	4.32	4.61	8.23	4.03A	3.19	0.396	---	---	24
25	---	---	---	---	4.99	4.58	7.19	3.98E	3.04	0.338	---	---	25
26	---	---	---	---	5.13	4.71	7.82	3.93E	2.73	0.304	---	---	26
27	---	---	---	---	5.21	4.80	7.94	3.88E	2.71	0.246	---	---	27
28	---	---	---	---	5.31	4.63	8.22	3.83A	2.92	0.222	---	---	28
29	---	---	---	---	4.72	4.72	7.46	3.52E	3.09	0.206	---	---	29
30	---		---	---	4.17	5.26	7.61	3.20A	3.16	0.207	---	---	30
31	---		---	0.324A	4.14		6.59	3.21A		0.215A		---	31
TOTAL	---	---	---	---	82.284	116.02	238.85	153.77	93.70	60.034	---	---	TOTAL
MEAN	---	---	---	---	2.65	3.87	7.70	4.96	3.12	1.94	---	---	MEAN
MAX	---	---	---	---	5.31	5.51	9.03	6.99	4.06	4.25	---	---	MAX
MIN	---	---	---	---	0.091	2.62	6.21	3.20	2.49	0.206	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 9.03 ON JUL 23
MINIMUM DAILY, 0.091 ON MAY 07

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 49 14 N
LONG 111 49 40 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	20 600
FEB	---	AUG	13 300
MAR	---	SEP	8 100
APR	---	OCT	5 190
MAY	7 110	NOV	---
JUN	10 000	DEC	---

MCALPINE CREEK (EAST FORK) NEAR ELKWATER LAKE - STATION NO. 05AH043

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	0 B	0.002B	0	0.003	0	0	0	0	0	---	---	1
2	---	0 B	0.002B	0	0.006	0	0	0	0	0	---	---	2
3	---	0 B	0.002B	0	0.000	0	0	0	0	0	---	---	3
4	---	0 B	0.002B	0	0.004	0	0	0	0	0	---	---	4
5	---	0 B	0.002B	0	0.002	0	0	0	0	0	---	---	5
6	---	0 B	0.002B	0	0	0	0	0	0	0	---	---	6
7	---	0 B	0.002B	0	0	0	0	0	0	0	---	---	7
8	---	0 B	0.002B	0	0	0	0	0	0	0	---	---	8
9	---	0 B	0.001B	0	0.002	0.001	0	0	0	0	---	---	9
10	---	0 B	0 B	0	0.001	0	0	0	0	0	---	---	10
11	---	0.004B	0 B	0	0	0	0	0	0	0	---	---	11
12	---	0.002B	0 B	0	0	0	0	0	0	0	---	---	12
13	---	0 B	0 B	0	0	0	0	0	0	0	---	---	13
14	---	0 B	0 B	0	0	0.001	0	0	0	0	---	---	14
15	---	0 B	0 B	0	0	0.002	0	0	0	0	---	---	15
16	---	0 B	0 B	0	0	0	0	0	0	0	---	---	16
17	---	0 B	0 B	0	0	0	0	0	0	0	---	---	17
18	---	0 B	0 B	0	0	0	0	0	0	0	---	---	18
19	---	0 B	0 B	0	0	0	0	0	0	0	---	---	19
20	---	0 B	0.001	0	0	0	0	0	0	0	---	---	20
21	---	0.003B	0	0	0	0	0	0	0	0	---	---	21
22	---	0.007B	0	0	0	0	0	0	0	0	---	---	22
23	---	0.007B	0	0	0	0	0	0	0	0	---	---	23
24	---	0.004B	0	0	0	0	0	0	0	0	---	---	24
25	---	0.003B	0	0	0	0	0	0	0	0	---	---	25
26	---	0.002B	0	0	0	0	0	0	0	0	---	---	26
27	---	0.002B	0	0	0	0	0	0	0	0	---	---	27
28	---	0.002B	0	0	0	0	0	0	0	0	---	---	28
29	---		0	0	0	0	0	0	0	0	---	---	29
30	---		0	0	0	0	0	0	0	0	---	---	30
31	OB		0	0	0	0	0	0	0	0A	---	---	31
TOTAL	---	0.036	0.018	0	0.026	0.004	0	0	0	0E	---	---	TOTAL
MEAN	---	0.001	0.001	0	0.001	0	0	0	0	0	---	---	MEAN
MAX	---	0.007	0.002	0	0.008	0.002	0	0	0	0	---	---	MAX
MIN	---	0	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0
MAXIMUM DAILY, 0.008 ON MAY 03
MINIMUM DAILY, 0B ON FEB 01
MAXIMUM INSTANTANEOUS, 0.012 AT 16:55 MST ON MAY 03

SUMMARY FOR THE MONTHS FEB TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 47 40 N
LONG 110 11 03 W
DRAINAGE AREA, 20.5 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	3.11	AUG	0
MAR	1.56	SEP	0
APR	0	OCT	0
MAY	2.25	NOV	---
JUN	0.346	DEC	---

TOTAL DISCHARGE, 7.27 dam³

MCGREGOR LAKE INFLOW NEAR MILO - STATION NO. 05AC024

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0	34.6	7.29	32.4	33.4	33.4	33.2	OE	---	1
2	---	---	---	0	34.8	7.33	32.8	33.1	33.1	33.0	OE	---	2
3	---	---	---	0	35.0	4.81	33.7	33.7	33.0	32.3	OE	---	3
4	---	---	---	0	35.0	0.953	33.5	33.1	32.8	25.6	OE	---	4
5	---	---	---	0	34.9	3.15	33.0	32.8	33.1	18.5	OE	---	5
6	---	---	---	0	34.9	12.7	34.3	32.9	33.2	13.5	OE	---	6
7	---	---	---	0	35.1	14.7	34.7	31.9	33.1	12.4	OE	---	7
8	---	---	---	0	28.9	14.6	34.6	31.3	32.8	12.3	OE	---	8
9	---	---	---	0	18.0	14.4	33.8	32.2	32.8	11.9	OE	---	9
10	---	---	---	0	10.2	14.0	33.9	32.5	32.9	11.9	OE	---	10
11	---	---	---	0	7.37	13.8	33.9	32.1	33.3	12.2	OE	---	11
12	---	---	---	0	13.1	14.4	33.4	32.7	33.4	8.99	OE	---	12
13	---	---	---	0	16.0	20.1	32.3	32.6	34.1	6.71	OE	---	13
14	---	---	---	0	16.0	21.3	32.5	32.3	34.2	3.54	OE	---	14
15	---	---	---	0	21.7	21.5	33.0	32.0	34.1	0.672	OE	---	15
16	---	---	---	0	27.6	29.0	32.6	32.4	34.1	0.467	OE	---	16
17	---	---	---	0	30.0	31.5	32.6	32.9	34.0	0.100	OE	---	17
18	---	---	---	0	29.6	31.5	33.7	32.7	33.9	0.470	OE	---	18
19	---	---	---	11.8	32.2	33.4	33.3	33.3	33.8	0.051	OE	---	19
20	---	---	---	22.9	33.4	33.4	33.0	33.3	33.7	0	OE	---	20
21	---	---	---	28.4	33.7	34.1	33.1	32.2	33.7	0	OE	---	21
22	---	---	---	29.5	33.6	34.4	32.4	32.4	33.8	0	OE	---	22
23	---	---	---	29.7	34.3	34.3	31.7	32.7	33.5	0	OE	---	23
24	---	---	---	32.7	34.7	34.0	31.6	33.1	33.5	0	OE	---	24
25	---	---	---	34.1	31.2	34.0	31.9	33.0	33.8	0	OE	---	25
26	---	---	OA	34.7	18.5	33.4	31.9	33.0	34.0	0	OE	---	26
27	---	---	0	35.1	13.2	33.4	34.5	32.9	33.9	0	OE	---	27
28	---	---	0	35.3	10.1	33.4	35.0	33.1	33.7	0	OE	---	28
29	---	---	0	35.2	10.5	33.7	34.8	33.6	33.3	0 A	OE	---	29
30	---		0	34.7	10.6	32.0	34.2	33.7	33.1	0 E	OE	---	30
31	---		0		7.99		33.4	33.7				---	31
TOTAL	---	---	---	364.1	766.76	680.533	1 031.5	1 016.3	1 005.1	237.700	0	---	TOTAL
MEAN	---	---	---	12.1	24.7	22.7	33.3	32.8	33.5	7.67	0	---	MEAN
MAX	---	---	---	35.3	35.1	34.4	35.0	33.7	34.2	33.2	0	---	MAX
MIN	---	---	---	0	7.37	0.953	31.6	31.3	32.8	0	0	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 20.9
MAXIMUM DAILY, 35.3 ON APR 28
MINIMUM DAILY, 0 ON APR 01

SUMMARY FOR THE MONTHS APR TO NOV

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 35 20 N
LONG 112 55 25 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED SINCE 1976

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	89 100
FEB	---	AUG	87 800
MAR	---	SEP	86 800
APR	31 500	OCT	20 500
MAY	66 200	NOV	0
JUN	58 800	DEC	---

TOTAL DISCHARGE, 441 000 dam³

MCGREGOR TRAVERS CANAL NEAR CHAMPION - STATION NO. 05AC025

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0	5.36	11.5	51.2	31.0	12.9	29.7	---	---	1
2	---	---	---	0	5.39	11.5	51.3	29.6	12.9	28.1	---	---	2
3	---	---	---	0	2.93	11.4	51.2	29.7	13.8	23.8	---	---	3
4	---	---	---	0	0.819	11.4	51.1	29.9	14.6	21.8	---	---	4
5	---	---	---	0	0.224	11.4	50.8	29.2	16.0	21.8	---	---	5
6	---	---	---	0	0.215	11.4	50.5	27.4	18.5	20.6	---	---	6
7	---	---	---	0	0.194	11.4	50.6	27.5	19.3	18.9	---	---	7
8	---	---	---	0	0.169	11.3	50.5	27.6	19.3	15.4	---	---	8
9	---	---	---	3.31A	0.199	11.3	50.3	27.7	19.3	7.21	---	---	9
10	---	---	---	11.8	11.8	12.9	50.3	27.8	22.7	0.021	---	---	10
11	---	---	---	17.1	20.6	15.5	50.2	27.9	25.3	0	---	---	11
12	---	---	---	25.2	16.8	19.8	50.1	28.6	26.1	0	---	---	12
13	---	---	---	28.4	16.8	23.2	50.1	30.9	26.9	0	---	---	13
14	---	---	---	28.2	16.7	27.3	50.0	30.9	26.9	0	---	---	14
15	---	---	---	28.1	16.7	30.8	49.9	30.9	26.9	0	---	---	15
16	---	---	---	30.4	16.6	30.7	50.0	27.8	26.7	0	---	---	16
17	---	---	---	31.5	20.1	30.6	50.2	25.4	29.8	0	---	---	17
18	---	---	---	31.2	22.9	33.1	50.1	25.4	31.0	0	---	---	18
19	---	---	---	31.0	22.9	40.2	50.0	25.5	30.1	0	---	---	19
20	---	---	---	30.9	27.1	45.9	49.9	24.9	30.1	0	---	---	20
21	---	---	---	31.7	29.5	45.9	49.8	21.7	30.0	0	---	---	21
22	---	---	---	32.4	29.5	47.3	49.5	19.3	29.9	0	---	---	22
23	---	---	---	32.3	25.9	47.2	49.4	18.5	29.8	0	---	---	23
24	---	---	---	32.1	22.1	47.7	49.3	17.8	30.7	0	---	---	24
25	---	---	---	32.1	22.2	48.7	49.2	15.8	31.2	0	---	---	25
26	---	---	OA	29.3	14.7	49.6	47.9	15.8	29.4	0	---	---	26
27	---	---	0	23.8	13.8	50.5	38.7	15.9	28.2	0	---	---	27
28	---	---	0	21.1	16.3	50.6	38.7	14.7	28.3	0	---	---	28
29	---	---	0	17.0	16.4	51.4	38.1	12.7	29.0	0 A	---	---	29
30	---		0	9.54	16.4 A	51.3	35.0	10.9	29.7	0 E	---	---	30
31	---		0		11.9 A		33.1	10.7		0 E		---	31
TOTAL	---	---	---	558.45	444.200	902.8	1 487.0	739.4	745.3	187.331	---	---	TOTAL
MEAN	---	---	---	18.6	14.3	30.1	48.0	23.9	24.8	6.04	---	---	MEAN
MAX	---	---	---	32.4	29.5	51.4	51.3	31.0	31.2	29.7	---	---	MAX
MIN	---	---	---	0	0.169	11.3	33.1	10.7	12.9	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 23.7
MAXIMUM DAILY, 51.4 ON JUN 29
MINIMUM DAILY, 0 ON APR 01

SUMMARY FOR THE MONTHS APR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 15 15 N
LONG 112 49 00 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	128 000
FEB	---	AUG	63 900
MAR	---	SEP	64 400
APR	48 300	OCT	16 200
MAY	36 400	NOV	---
JUN	79 000	DEC	---

TOTAL DISCHARGE, 437 000 dam³

MCLEOD RIVER ABOVE EMBARRAS RIVER - STATION NO. 07AF002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	4.90B	2.23B	3.88B	6.69B	23.4	167	35.4	19.9	27.4	10.3	5.70B	6.11B	1
2	5.07B	2.12B	3.88B	7.94B	27.2	188	32.2	19.6	23.9	9.85	5.53B	5.95B	2
3	5.10B	2.20B	4.19B	9.07B	30.5	149	53.8	18.0	21.7	9.56	4.79B	5.86B	3
4	4.78B	2.13B	4.11B	9.85B	34.6	135	95.9	16.9	18.8	9.97	5.00B	5.89B	4
5	4.54B	2.24B	4.06B	10.3 B	40.5	120	83.2	15.6	17.0	11.0	5.30B	5.90B	5
6	4.31B	2.39B	4.11B	10.6 B	52.5	103	82.4	14.3	15.3	10.7	5.60B	5.81B	6
7	4.73B	2.55B	4.18B	10.8 B	59.0	87.9	226	13.1	14.0	10.3	5.80B	5.62B	7
8	5.00B	2.72B	4.21B	11.0 B	46.1	77.8	186	12.2	12.8	9.90	5.40B	5.55B	8
9	5.03B	2.85B	3.90B	9.96B	42.9	69.7	131	11.5	11.9	9.84	5.15B	5.43B	9
10	4.76B	2.93B	3.64B	9.20B	41.6	62.9	101	11.1	11.4	11.5	4.75B	5.18B	10
11	4.42B	2.99B	3.05B	9.00B	40.1	63.4	83.6	10.5	10.8	14.0	4.40B	4.77B	11
12	3.89B	3.00B	3.11B	11.2 B	40.2	101	71.4	10.1	10.6	13.6	3.82B	4.36B	12
13	3.47B	3.02B	2.93B	17.0 B	41.0	237	62.8	9.80	10.5	12.2	3.92B	4.35B	13
14	3.60B	3.06B	2.78B	21.0 B	43.9	264	56.4	10.9	10.8	11.5	4.20B	4.06B	14
15	3.83B	3.04B	2.81B	24.0 B	47.1	190	48.7	10.8	10.0	10.3	5.00B	4.29B	15
16	4.05B	3.01B	2.94B	22.4 B	47.1	158	44.9	11.4	9.91	9.32	5.20B	4.63B	16
17	4.14B	3.04B	2.82B	21.0 B	48.3	143	43.2	12.1	19.1	9.14	5.45B	4.83B	17
18	4.10B	2.97B	2.88B	25.4 B	52.8	124	37.8	15.0	33.8	8.63B	5.20B	4.87B	18
19	3.48B	2.95B	2.90B	27.0 B	56.4	106	36.8	18.0	25.7	9.43B	4.80B	4.72B	19
20	3.32B	2.94B	3.74B	28.4 B	56.2	92.4	35.2	15.3	21.6	8.43B	4.35B	4.34B	20
21	3.21B	2.91B	3.53B	29.6 B	61.7	82.3	31.5	13.1	18.7	7.40B	4.00B	3.92B	21
22	3.29B	2.92B	2.99B	31.0 B	68.4	73.9	28.2	11.6	16.7	8.08B	3.44B	3.86B	22
23	3.24B	3.63B	2.93B	32.3 B	65.1	69.2	25.6	16.7	15.4	7.66B	2.89B	3.91B	23
24	3.36B	3.82B	2.94B	35.0	66.2	64.3	25.2	22.9	14.1	7.08B	2.86B	3.94B	24
25	3.41B	3.59B	2.85B	36.2	78.0	58.1	26.7	25.1	12.9	7.54B	2.85B	3.98B	25
26	3.09B	3.54B	2.87B	36.7	118	51.0	25.8	26.9	12.0	7.70B	3.14B	4.12B	26
27	2.66B	4.02B	3.17B	32.4	115	46.1	24.2	34.0	11.5	8.38B	3.24B	4.23B	27
28	2.87B	4.22B	3.68B	27.7	103	42.6	25.0	28.9	11.1	8.00B	4.33B	4.32B	28
29	2.77B		4.04B	24.1	95.5	40.5	23.5	24.6	10.8	8.24B	5.45B	4.18B	29
30	2.63B		4.72B	22.7	100	38.2	21.5	23.2	10.6	7.19B	6.15B	4.06B	30
31	2.36B		6.08B		178		19.9	27.2		6.55B		3.95B	31
TOTAL	119.41	83.03	110.00	609.51	1 922.3	3 205.2	1 827.8	530.50	470.81	293.29	137.79	147.07	TOTAL
MEAN	3.85	2.97	3.55	20.3	62.0	107	59.0	17.1	15.7	9.46	4.59	4.74	MEAN
MAX	5.10	4.22	6.08	36.7	178	264	226	34.0	33.8	14.0	6.15	6.11	MAX
MIN	2.36	2.12	2.78	6.69	23.4	38.2	19.9	9.80	9.91	6.55	2.85	3.86	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 25.9
MAXIMUM DAILY, 264 ON JUN 14
MINIMUM DAILY, 2.12B ON FEB 02
MAXIMUM INSTANTANEOUS,
321 AT 22:28 MST ON JUN 13

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 28 12 N
LONG 116 37 45 W
DRAINAGE AREA, 2 560 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	10 300	JUL	158 000
FEB	7 170	AUG	45 800
MAR	9 500	SEP	40 700
APR	52 700	OCT	25 300
MAY	166 000	NOV	11 900
JUN	277 000	DEC	12 700

TOTAL DISCHARGE, 817 000 dam³

MCLEOD RIVER NEAR CADOMIN - STATION NO. 07AF013

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.576B	1.05B	6.03	60.3	9.67	6.91	7.32	2.77	2.25B	---	1
2	---	---	0.572B	1.20B	6.96	53.9	9.90	6.27	6.65	2.70	1.81B	---	2
3	---	---	0.568B	1.35B	8.47	39.8	13.7	5.95	6.09	2.63	1.47B	---	3
4	---	---	0.564B	1.29B	10.3	33.1	12.7	5.55	5.75	2.78	1.60B	---	4
5	---	---	0.560B	1.23B	13.3	24.9	11.0	5.15	5.43	2.80	1.50B	---	5
6	---	---	0.556B	1.16B	16.2	20.0	32.5	5.16	5.12	2.60	1.60B	---	6
7	---	---	0.552B	1.10B	12.2	17.8	41.7	4.92	4.86	2.54	1.45B	---	7
8	---	---	0.548B	1.05B	11.1	16.8	31.6	4.74	4.59	2.52	1.33B	---	8
9	---	---	0.544B	1.00B	10.7	15.9	23.1	4.62	4.35	2.78	---	---	9
10	---	---	0.540B	1.00B	10.2	15.0	17.8	4.49	4.19	2.90	---	---	10
11	---	---	0.536B	1.05B	9.55	17.9	16.4	4.35	3.99	2.68	---	---	11
12	---	---	0.532B	1.40B	9.02	23.3	14.7	4.26	3.88	2.58	---	---	12
13	---	---	0.528B	1.90	9.06	29.1	14.0	4.25	3.88	2.56	---	---	13
14	---	---	0.524B	2.30	9.05	32.2	11.7	4.22	3.71	2.41B	---	---	14
15	---	---	0.520B	2.78	9.34	32.1	10.5	4.09	3.51	2.47B	---	---	15
16	---	---	0.516B	2.55	10.1	37.7	10.7	4.10	3.86	2.37B	---	---	16
17	---	---	0.512B	2.89	10.4	37.5	9.38	4.33	6.50	2.37B	---	---	17
18	---	---	0.508B	4.00	11.1	32.8	8.71	4.74	5.58	2.35B	---	---	18
19	---	---	0.504B	5.11	11.6	28.2	8.52	4.68	5.12	2.33B	---	---	19
20	---	---	0.500B	5.81	12.8	23.4	7.77	4.38	4.82	2.42B	---	---	20
21	---	---	0.500B	6.50	13.3	21.3	7.08	5.24	4.56	2.34B	---	---	21
22	---	---	0.503B	6.40	12.6	21.1	6.61	8.49	4.27	2.33B	---	---	22
23	---	---	0.505B	6.10	13.7	21.5	6.68	8.08	3.97	2.38B	---	---	23
24	---	---	0.515B	6.63	15.4	17.8	7.37	8.40	3.43	2.27B	---	---	24
25	---	---	0.530B	7.07	23.7	15.5	6.89	8.38	3.31	2.40B	---	---	25
26	---	---	0.560B	6.63	33.8	14.0	6.89	9.51	3.15	2.59B	---	---	26
27	---	---	0.590B	6.06	31.9	12.5	7.53	9.15	3.02	2.47B	---	---	27
28	---	---	0.630B	5.62	30.8	11.3	6.99	8.69	2.93	2.43B	---	---	28
29	---	---	0.700B	5.18	32.1	10.4	6.72	8.72	2.88	2.30B	---	---	29
30	---		0.800B	5.06	46.2	10.1	6.27	8.59	2.79	2.33B	---	---	30
31	---		0.900B		48.1		6.43	8.23		2.24B		---	31
TOTAL	---	---	17.493	102.37	509.14	757.2	391.51	188.64	133.51	77.54	---	---	TOTAL
MEAN	---	---	0.564	3.41	16.4	25.2	12.6	6.09	4.45	2.50	---	---	MEAN
MAX	---	---	0.900	7.07	48.1	60.3	41.7	9.51	7.32	2.90	---	---	MAX
MIN	---	---	0.500	1.00	6.03	10.1	6.27	4.09	2.79	2.24	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 8.89
MAXIMUM DAILY, 60.3 ON JUN 01
MINIMUM DAILY, 0.500B ON MAR 20
MAXIMUM INSTANTANEOUS,
78.6 AT 21:20 MST ON MAY 30

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 04 44 N
LONG 117 11 50 W
DRAINAGE AREA, 331 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	33 800
FEB	---	AUG	16 300
MAR	1 510	SEP	11 500
APR	8 840	OCT	6 700
MAY	44 000	NOV	---
JUN	65 400	DEC	---

TOTAL DISCHARGE, 188 000 dam³

MCLEOD RIVER NEAR ROSEVEAR - STATION NO. 07AG007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	15.2 B	9.00B	8.05B	19.0B	59.5	339	69.5	39.0E	49.1	18.9	9.73B	14.1 B	1
2	14.6 B	8.70B	8.38B	22.0B	63.3	315	67.6	38.5E	48.7	18.7	7.54B	14.6 B	2
3	14.3 B	8.50B	8.86B	24.5B	67.5	280	108	37.0E	42.9	18.3	7.40B	14.5 B	3
4	14.3 B	8.40B	9.27B	25.1B	70.9	246	283	34.5E	37.5	18.6	7.30B	13.9 B	4
5	14.4 B	8.28B	10.2 B	25.5B	73.2	261	367	32.5E	32.8A	20.1	6.85B	13.5 B	5
6	13.9 B	8.61B	10.9 B	27.2B	78.8	251	290	30.5E	28.5E	20.8	8.49B	13.0 B	6
7	13.2 B	8.39B	11.0 B	29.2E	92.7	208	386	28.5E	26.4E	21.2	10.7 B	12.8 B	7
8	12.8 B	8.87B	11.0 B	30.8B	84.4	173	459	27.0E	24.6A	20.5	10.6 B	12.5 B	8
9	13.1 B	9.16B	10.7 B	29.0E	75.0	150	327	25.5E	22.9	20.4	9.29B	12.3 B	9
10	12.9 B	9.03B	10.3 B	28.0B	73.5	130	253	24.5E	22.0	21.1	9.07B	12.1 B	10
11	12.1 B	8.87B	10.1 B	26.0B	71.9	133	196	23.0E	21.7	23.8	6.58B	11.8 B	11
12	11.5 B	9.17B	9.73B	25.2B	71.2	265	158	21.8E	21.5	27.3	6.89B	11.4 B	12
13	11.0 B	9.15B	9.37B	26.8B	74.6	495	134	21.0E	21.2	26.5	7.47B	11.0 B	13
14	10.5 B	8.78B	9.70B	29.0B	81.1	679	118	20.0E	21.1	24.8	7.32B	10.4 B	14
15	9.76B	8.49B	10.2 B	31.0B	87.6	522	99.9	21.8E	20.9	23.5	7.18B	10.2 B	15
16	9.87B	8.37B	11.0 B	35.0B	92.6	393	89.5	23.0E	21.1	21.5	8.68B	9.94B	16
17	10.1 B	7.96B	11.2 B	38.0B	91.7	319	84.4	24.5E	22.4	19.4B	9.20B	10.2 B	17
18	10.2 B	7.36B	11.2 B	49.0E	91.9	279	77.6	27.0E	23.5	18.7B	10.4 B	10.8 B	18
19	10.2 B	7.00B	12.0 B	59.5B	97.3	243	68.5	30.0E	50.4	19.4B	10.6 B	10.9 B	19
20	10.1 B	6.95B	13.3 B	74.1	98.6	208 A	64.0	35.0E	40.8	18.5B	10.0 B	11.1 B	20
21	9.44B	9.00B	14.0 B	79.7	111	172 A	60.9	33.0E	35.2	16.2B	9.80B	11.2 B	21
22	9.26B	9.17B	13.1 B	84.4	157	144 A	56.1	30.0E	31.2	17.1B	9.63B	10.7 B	22
23	9.25B	7.33B	12.3 B	86.1	170	126	51.3	27.5E	28.2	16.4B	9.68B	10.1 B	23
24	9.26B	7.22B	12.0 B	83.3	149	118	48.3	30.0E	25.6	17.5B	9.16B	9.76B	24
25	9.32B	7.32B	11.3 B	92.3	158	106	48.2	35.0E	23.6	18.0B	8.76B	9.82B	25
26	9.35B	7.69B	11.0 B	91.8	237	97.7	52.1	43.9A	22.1	17.4B	8.72B	9.74B	26
27	9.47B	7.90B	11.0 B	84.8	253	80.7	48.1	46.7A	21.0	17.3B	9.45B	9.94B	27
28	9.29B	7.92B	11.0 B	74.5	209	62.5	45.8	52.1	20.2	16.8B	10.1 B	10.0 B	28
29	9.04B		12.2 B	66.5	178	47.5	43.4	45.1	19.5	17.0B	10.5 B	10.2 B	29
30	8.52B		14.5 B	61.1	165	74.0	41.4	39.5	19.2	17.1B	12.3 B	10.3 B	30
31	8.78B		16.0 B		259		40.7	40.0		13.6B		10.5 B	31
TOTAL	345.21	231.59	344.86	1 458.4	3 643.3	6 975.4	4 236.3	987.8	860.1	606.4	268.99	353.30	TOTAL
MEAN	11.1	8.27	11.1	48.6	118	233	137	31.9	28.7	19.6	8.97	11.4	MEAN
MAX	15.2	9.17	16.0	92.3	259	679	459	52.1	50.4	27.3	12.3	14.6	MAX
MIN	8.52	6.95	8.05	19.0	59.5	74.0	40.7	20.0	19.2	13.6	6.58	9.74	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 55.6
MAXIMUM DAILY, 679 ON JUN 14
MINIMUM DAILY, 6.58B ON NOV 11
MAXIMUM INSTANTANEOUS,
727 AT 08:02 MST ON JUN 14

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 41 49 N
LONG 116 09 42 W
DRAINAGE AREA, 7 150 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	29 800	JUL	366 000
FEB	20 000	AUG	85 300
MAR	29 800	SEP	74 300
APR	126 000	OCT	52 400
MAY	315 000	NOV	23 200
JUN	603 000	DEC	30 500

TOTAL DISCHARGE, 1 760 000 dam³

MCLEOD RIVER NEAR WHITECOURT - STATION NO. 07AG004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	15.0B	23.5B	61.0E	381	81.3	40.8	45.6	21.1	---	---	1
2	---	---	16.5B	32.0B	63.0E	350	78.7	39.0	55.8	20.9	---	---	2
3	---	---	16.0B	42.0B	66.0E	337	123	38.6	52.3	20.5	---	---	3
4	---	---	16.0B	46.0B	70.0E	284	361	36.8	46.9	20.3	---	---	4
5	---	---	15.5B	48.0B	74.0E	306	499	34.5	41.2	22.0	---	---	5
6	---	---	14.0B	51.0B	82.0E	315	373	32.0	36.9	22.9	---	---	6
7	---	---	13.2B	52.0B	95.0E	267	389	30.1	33.4	23.7	---	---	7
8	---	---	12.7B	52.3B	90.0E	215	567	28.4	30.4	24.3	---	---	8
9	---	---	13.7B	49.0B	85.0E	184	408	26.7	28.0	23.9	---	---	9
10	---	---	13.5B	45.0B	76.0E	161	305	25.1	26.0	23.7	---	---	10
11	---	---	13.3B	40.5B	72.0E	147	232	24.2	23.9	25.0	---	---	11
12	---	---	13.0B	37.0B	71.5E	227	184	23.1	24.3	28.1	---	---	12
13	---	---	12.7B	35.0E	75.0E	520	154	22.5	23.3	31.3	---	---	13
14	---	---	12.3B	38.0B	79.0E	779	134	21.5	22.7	30.5	---	---	14
15	---	---	12.8B	41.7B	83.0E	628	117	22.5	22.3	28.9	---	---	15
16	---	---	13.4B	47.4B	88.0E	453	102	25.3	22.6	27.0	---	---	16
17	---	---	14.3B	56.2B	89.0E	361	92.6	24.9	23.6	24.5	---	---	17
18	---	---	14.9B	62.2B	91.0E	306	90.7	28.1	25.0	21.9B	---	---	18
19	---	---	15.7B	69.1B	93.0E	263 A	84.0	33.2	45.3	20.9B	---	---	19
20	---	---	17.1B	78.9	105 E	225 A	76.3	35.6	52.5	21.6B	---	---	20
21	---	9.48B	17.2B	90.4	130 E	200 A	72.2	35.7	43.6	20.7B	---	---	21
22	---	---	17.9B	95.0	167 E	172 E	65.8	31.8	38.3	18.4B	---	---	22
23	---	---	17.1B	99.4	180 E	150 E	60.1	28.8	34.5	21.1B	---	---	23
24	---	---	15.9B	91.3A	163 E	135 E	55.4	26.7	31.0	18.7B	---	---	24
25	---	---	14.9B	98.0E	200 E	122 E	53.5	32.7	28.8	19.6B	---	---	25
26	---	---	14.1B	102 E	250 E	112 A	55.4	47.2	26.9	20.6B	---	---	26
27	---	---	14.2B	100 E	280 E	104	58.1	46.4	24.9	20.1B	---	---	27
28	---	---	15.9B	95.0E	250 E	99.9	52.7	53.1	23.6	19.5B	---	---	28
29	---		16.0B	75.0E	213 A	91.7	50.6	55.7	22.6	18.8B	---	---	29
30	---		18.0B	67.0E	193	85.4	47.8	49.4	21.7	18.8B	---	---	30
31	---		21.0B		216		44.7	46.4		18.8B		---	31
TOTAL	---	---	467.7	1 860.7	3 850.5	7 977.0	5 067.9	1 046.8	977.9	698.1	---	---	TOTAL
MEAN	---	---	15.1	62.0	124	266	163	33.8	32.6	22.5	---	---	MEAN
MAX	---	---	21.0	102	280	779	567	55.7	55.8	31.3	---	---	MAX
MIN	---	---	12.3	23.5	61.0	85.4	44.7	21.5	21.7	18.4	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 89.6
MAXIMUM DAILY, 779 ON JUN 14
MINIMUM DAILY, 12.3B ON MAR 14
MAXIMUM INSTANTANEOUS,
828 AT 12:33 MST ON JUN 14

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 00 46 N
LONG 115 50 18 W
DRAINAGE AREA, 9 100 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	438 000
FEB	---	AUG	90 400
MAR	40 400	SEP	84 500
APR	161 000	OCT	60 300
MAY	333 000	NOV	---
JUN	689 000	DEC	---

TOTAL DISCHARGE, 1 900 000 dam³

MEADOW CREEK NEAR THE MOUTH - STATION NO. 05AB029

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.079B	0.101	0.421	0.107	0.029	0	0	---	---	1
2	---	---	0.001B	0.050B	0.160	0.422	0.084	0.025	0	0	---	---	2
3	---	---	0.001B	0.089B	0.167	0.470	0.098	0.017	0	0	---	---	3
4	---	---	0.001B	0.094	0.126	0.446	0.092	0.059	0	0	---	---	4
5	---	---	0.001B	0.029	0.097	0.396	0.086	0.041	0	0	---	---	5
6	---	---	0 B	0.016	0.074	0.379	0.100	0.028	0	0	---	---	6
7	---	---	0 B	0.006	0.063	0.367	0.128	0.014	0	0	---	---	7
8	---	---	0 B	0.008	0.045	0.349	0.136	0.011	0	0	---	---	8
9	---	---	0 B	0.028	0.038	0.322	0.128	0.004	0	0	---	---	9
10	---	---	0.020B	0.021	0.045	0.309	0.083	0.001	0	0	---	---	10
11	---	---	0.040B	0.011	0.052	0.303	0.074	0	0	0	---	---	11
12	---	---	0.002B	0.008	0.058	0.284	0.070	0	0	0	---	---	12
13	---	---	0.015B	0.018	0.054	0.284	0.067	0	0	0	---	---	13
14	---	---	0.007B	0.033	0.046	0.306	0.066	0	0	0	---	---	14
15	---	---	0.002B	0.035	0.040	0.289	0.048	0	0	0	---	---	15
16	---	---	0.002B	0.057	0.036	0.254	0.052	0	0	0	---	---	16
17	---	---	0 B	0.065	0.036	0.250	0.054	0	0	0	---	---	17
18	---	---	0 B	0.033	0.038	0.237	0.049	0	0	0	---	---	18
19	---	---	0 B	0.026	0.049	0.210	0.108	0	0	0	---	---	19
20	---	---	0.010B	0.033	0.087	0.191	0.151	0.011	0	0	---	---	20
21	---	---	0.020B	0.035	0.081	0.196	0.100	0.012	0	0	---	---	21
22	---	---	0.010B	0.030	0.059	0.177	0.070	0.010	0	0	---	---	22
23	---	---	0 B	0.028	0.050	0.160	0.049	0.006	0	0	---	---	23
24	---	---	0 B	0.019	0.099	0.143	0.033	0.001	0A	0	---	---	24
25	---	---	0 B	0.010	0.617	0.142	0.089	0	0	0	---	---	25
26	---	0 B	0 B	0.016	0.601	0.139	0.199	0.005	0	0	---	---	26
27	---	0 B	0 B	0.026	0.454	0.143	0.133	0.016	0	0	---	---	27
28	---	0.001B	0 B	0.133	0.374	0.116	0.079	0.013	0	0	---	---	28
29	---		0.001B	0.087	0.466	0.111	0.056	0.004	0	0A	---	---	29
30	---		0.004B	0.044	0.497	0.106	0.040	0.001	0	0E	---	---	30
31	---		0.071B		0.445		0.034	0		0E		---	31
TOTAL	---	---	0.216	1.167	5.155	7.922	2.663	0.308	0	0	---	---	TOTAL
MEAN	---	---	0.007	0.039	0.166	0.264	0.086	0.010	0	0	---	---	MEAN
MAX	---	---	0.071	0.133	0.617	0.470	0.199	0.059	0	0	---	---	MAX
MIN	---	---	0	0.006	0.036	0.106	0.033	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.071
MAXIMUM DAILY, 0.617 ON MAY 25
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
1.16 AT 20:45 MST ON MAY 25

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 57 15 N
LONG 113 39 43 W
DRAINAGE AREA, 130 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	230
FEB	---	AUG	26.6
MAR	18.7	SEP	0
APR	101	OCT	0
MAY	445	NOV	---
JUN	684	DEC	---

TOTAL DISCHARGE, 1 510 dam³

REMARKS - PEAK DISCHARGE ESTIMATED FROM HIGH WATER MARKS. TIMING OF PEAK WAS UNKNOWN

MEANDER RIVER AT OUTLET HUTCH LAKE - STATION NO. 07OB005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	OB	0 B	0.061	0.078	0.014	0.010	0.001	0	---	---	1
2	---	---	OB	0 B	0.066	0.067	0.013	0.011	0	0.001	---	---	2
3	---	---	OB	0 B	0.091	0.060	0.012	0.010	0	0.006	---	---	3
4	---	---	OB	0 B	0.140	0.051	0.010	0.009	0	0.005	---	---	4
5	---	---	OB	0 B	0.149	0.044	0.009	0.007	0	0.004	---	---	5
6	---	---	OB	0 B	0.268	0.057	0.008	0.006	0	0.004	---	---	6
7	---	---	OB	0 B	0.438	0.030	0.007	0.004	0	0.004	---	---	7
8	---	---	OB	0 B	0.498	0.030	0.005	0.003	0	0.004	---	---	8
9	---	---	OB	0 B	0.543	0.041	0.003	0.002	0	0.005	---	---	9
10	---	---	OB	0 B	0.509	0.040	0.002	0.001	0	0.005	---	---	10
11	---	---	OB	0 B	0.459	0.041	0.001	0.001	0	0.004	---	---	11
12	---	---	OB	0 B	0.414	0.046	0.001	0	0	0.004	---	---	12
13	---	---	OB	0 B	0.374	0.033	0.010	0	0	0.004	---	---	13
14	---	---	OB	0 B	0.367	0.026	0.013	0	0	0.003	---	---	14
15	---	---	OB	0 B	0.327	0.025	0.012	0	0	0.003B	---	---	15
16	---	---	OB	0 B	0.341	0.024	0.011	0	0	0.003B	---	---	16
17	---	---	OB	0.002B	0.312	0.023	0.010	0	0	0.002B	---	---	17
18	---	---	OB	0.003B	0.349	0.021	0.010	0	0	0.003B	---	---	18
19	---	---	OB	0.006B	0.328	0.020	0.010	0	0	0.003B	---	---	19
20	---	---	OB	0.011B	0.310	0.019	0.010	0	0.001	0.003B	---	---	20
21	---	OB	OB	0.024B	0.298	0.017	0.009	0	0.001	0.003B	---	---	21
22	---	OB	OB	0.069B	0.282	0.015	0.009	0	0.001	0.003B	---	---	22
23	---	OB	OB	0.148B	0.263	0.015	0.008	0.003	0.001	0.003B	---	---	23
24	---	OB	OB	0.188B	0.211	0.013	0.008	0.004	0.001	0.004B	---	---	24
25	---	OB	OB	0.132	0.214	0.011	0.007	0.004	0.001	0.004B	---	---	25
26	---	OB	OB	0.129	0.229	0.010	0.006	0.003	0.001	0.004B	---	---	26
27	---	OB	OB	0.108	0.177	0.010	0.005	0.002	0.001	0.004B	---	---	27
28	---	OB	OB	0.106	0.151	0.011	0.004	0.002	0	0.003B	---	---	28
29	---		OB	0.101	0.126	0.013	0.003	0.001	0	0.004B	---	---	29
30	---		OB	0.077	0.076	0.013	0.002	0.001	0	0.003B	---	---	30
31	---		OB		0.070		0.002	0.001		0.003B	---	---	31
TOTAL	---	---	0	1.104	8.441	0.904	0.234	0.085	0.009	0.108	---	---	TOTAL
MEAN	---	---	0	0.037	0.272	0.030	0.008	0.003	0	0.004	---	---	MEAN
MAX	---	---	0	0.188	0.543	0.078	0.014	0.011	0.001	0.006	---	---	MAX
MIN	---	---	0	0	0.061	0.010	0.001	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.044
MAXIMUM DAILY, 0.543 ON MAY 09
MINIMUM DAILY, OB ON MAR 01
MAXIMUM INSTANTANEOUS,
0.775 AT 11:00 MST ON MAY 09

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 46 15 N
LONG 117 23 05 W
DRAINAGE AREA, 507 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	20.2
FEB	---	AUG	7.34
MAR	0	SEP	0.778
APR	95.4	OCT	9.33
MAY	729	NOV	---
JUN	78.1	DEC	---

TOTAL DISCHARGE, 940 dam³

MEDICINE RIVER NEAR ECKVILLE - STATION NO. 05CC007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.653B	0.343B	0.614B	75.8 B	9.71	21.6	6.49	2.77	1.40	0.702	1.02	0.655B	1
2	0.651B	0.316B	0.659B	71.0 B	8.74	20.7	5.70	2.63	1.23	0.517	1.02 B	0.646B	2
3	0.637B	0.335B	0.724B	64.7 B	7.83	17.7	45.6	2.65	1.11	0.425	1.01 B	0.659B	3
4	0.615B	0.345B	0.852B	45.9	7.21	18.4	102	2.76	1.04	0.526	1.00 B	0.668B	4
5	0.611B	0.360B	0.971B	30.9	6.64	24.4	161	2.79	1.04	0.721	0.980B	0.656B	5
6	0.593B	0.335B	1.19 B	21.1	6.39	34.3	223	2.65	0.917	0.847	0.940B	0.665B	6
7	0.502B	0.316B	1.47 B	16.9	5.58	42.2	170	2.31	0.830	0.980	0.900B	0.675B	7
8	0.527B	0.305B	2.09 B	13.6	5.23	39.2	128	2.16	0.748	1.18	0.842B	0.712B	8
9	0.524B	0.295B	7.83 B	11.4	5.21	29.5	98.2	2.07	0.701	1.30	0.786B	0.699B	9
10	0.521B	0.290B	6.51 B	9.21	6.51	17.3	75.5	1.89	0.666	1.44	0.759B	0.686B	10
11	0.502B	0.280B	4.28 B	7.65	7.02	13.5	43.7	1.78	0.568	1.74	0.693B	0.700B	11
12	0.476B	0.270B	3.21 B	6.98	7.08	28.5	22.8	1.75	0.580	1.80	0.651B	0.719B	12
13	0.466B	0.265B	1.94 B	6.95	6.57	62.0	14.0	1.72	0.576	1.76	0.632B	0.697B	13
14	0.448B	0.260B	1.00 B	7.54	5.86	85.6	11.5	1.65	0.576	1.67	0.628B	0.577B	14
15	0.420B	0.255B	0.900B	8.22	5.58	109	9.07	1.57	0.562	1.58	0.642B	0.506B	15
16	0.425B	0.245B	0.800B	8.59	5.38	105	7.55	1.55	0.382	1.41	0.678B	0.494B	16
17	0.420B	0.235B	0.700B	8.47	5.14	76.3	7.97	1.56	0.517	1.30	0.615B	0.490B	17
18	0.415B	0.235B	0.800B	7.53	4.83	39.0	9.14	1.62	0.530	1.18	0.623B	0.519B	18
19	0.410B	0.240B	0.900B	6.95	6.23	21.0	8.46	1.59	0.784	1.16	0.620B	0.520B	19
20	0.405B	0.250B	6.55 B	6.56	5.76	16.0	7.06	1.56	0.731	1.16	0.527B	0.510B	20
21	0.400B	0.319B	13.8 B	6.28	5.51	13.3	6.19	1.49	0.679	1.16	0.505B	0.500B	21
22	0.400B	0.314B	15.2 B	6.04	7.46	11.1	5.58	1.44	0.680	1.08	0.508B	0.500B	22
23	0.395B	0.352B	12.3 B	5.98	14.6	9.01	5.14	1.42	0.594	1.06	0.520B	0.490B	23
24	0.390B	0.382B	7.58 B	6.03	18.1	7.70	5.19	1.45	0.554	1.06	0.520B	0.480B	24
25	0.390B	0.435B	3.72 B	7.05	23.8	6.73	4.71	1.62	0.562	1.06	0.550B	0.450B	25
26	0.385B	0.511B	2.41 B	8.79	35.1	6.13	4.73	1.86	0.563	0.972	0.570B	0.430B	26
27	0.380B	0.595B	3.85 B	9.98	47.0	5.62	4.32	1.99	0.524	1.03	0.593B	0.390B	27
28	0.370B	0.626B	11.2 B	11.5	46.4	5.79	3.98	1.99	0.537	0.978	0.600B	0.370B	28
29	0.365B		25.2 B	11.1	30.5	7.98	3.59	1.84	0.505	0.986	0.623B	0.320B	29
30	0.360B		40.2 B	10.7	20.4	7.48	3.29	1.70	0.475	1.02	0.649B	0.310B	30
31	0.359B		60.0 B		19.3		3.02	1.50		1.00		0.300B	31
TOTAL	14.415	9.309	239.250	519.40	396.67	899.04	1 207.28	59.35	21.161	34.804	21.204	16.993	TOTAL
MEAN	0.465	0.333	7.72	17.3	12.8	30.0	38.9	1.91	0.705	1.12	0.707	0.548	MEAN
MAX	0.653	0.626	60.0	75.8	47.0	109	223	2.79	1.40	1.80	1.02	0.719	MAX
MIN	0.359	0.235	0.614	5.98	4.83	5.62	3.02	1.42	0.382	0.425	0.505	0.300	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 9.42
MAXIMUM DAILY, 223 ON JUL 06
MINIMUM DAILY, 0.235B ON FEB 17
MAXIMUM INSTANTANEOUS,
236 AT 06:00 MST ON JUL 06

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 19 08 N
LONG 114 20 33 W
DRAINAGE AREA, 1 910 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 250	JUL	104 000
FEB	804	AUG	5 130
MAR	20 700	SEP	1 830
APR	44 900	OCT	3 010
MAY	34 300	NOV	1 830
JUN	77 700	DEC	1 470

TOTAL DISCHARGE, 297 000 dam³

MEETING CREEK NEAR DONALDA - STATION NO. 05FC006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	8.23 B	0.006	0.166	0.421	0	0	0	---	---	1
2	---	---	0.001B	8.33	0.005	1.23	0.432	0	0	0	---	---	2
3	---	---	0.001B	6.82	0.003	0.335	2.91	0	0	0	---	---	3
4	---	---	0.001B	3.14	0.004	0.273	2.67	0	0	0	---	---	4
5	---	---	0.001B	1.47	0.001	0.336	1.44	0	0	0	---	---	5
6	---	---	0.001B	0.921	0.001	0.295	1.59	0	0	0	---	---	6
7	---	---	0.001B	0.699	0.001	0.294	1.52	0	0	0	---	---	7
8	---	---	0.008B	0.629	0.003	0.267	0.515	0	0	0	---	---	8
9	---	---	0.030B	0.486	0.005	0.240	0.208	0	0	0	---	---	9
10	---	---	0.024B	0.394	0.005	0.252	0.038	0	0	0	---	---	10
11	---	---	0.018B	0.317	0.006	0.302	0.014	0	0	0	---	---	11
12	---	---	0.013B	0.288	0.007	1.45	0.004	0	0	0	---	---	12
13	---	---	0.010B	0.278	0.006	2.14	0.001	0	0	0	---	---	13
14	---	---	0.006B	0.249	0.008	1.13	0.009	0	0	0	---	---	14
15	---	---	0.004B	0.190	0.009	0.560	0.001	0	0	0	---	---	15
16	---	---	0.047B	0.133	0.007	0.434	0.041	0	0	0	---	---	16
17	---	---	0.209B	0.118	0.005	0.419	0.016	0	0	0	---	---	17
18	---	---	0.326B	0.072	0.006	0.436	0.001	0	0	0	---	---	18
19	---	---	0.836B	0.040	0.007	0.431	0.001	0	0	0	---	---	19
20	---	---	1.74 B	0.028	0.006	0.434	0.001	0	0	0	---	---	20
21	---	---	1.20 B	0.025	0.009	0.434	0	0	0	0	---	---	21
22	---	0B	0.922B	0.011	0.019	0.445	0	0	0	0	---	---	22
23	---	0B	0.392B	0.004	0.003	0.454	0	0	0	0	---	---	23
24	---	0B	0.263B	0.004	0.003	0.450	0	0	0	0	---	---	24
25	---	0B	0.220B	0.006	0.003	0.442	0	0	0	0	---	---	25
26	---	0B	0.472B	0.005	0.004	0.437	0	0	0	0	---	---	26
27	---	0B	0.993B	0.005	0.005	0.425	0	0	0	0	---	---	27
28	---	0B	2.02 B	0.007	0.005	0.427	0	0	0	0	---	---	28
29	---		2.92 B	0.008	0.004	0.433	0	0	0	0	---	---	29
30	---		4.39 B	0.007	0.005	0.428	0	0	0	0A	---	---	30
31	---		6.35 B		0.005		0	0		0E		---	31
TOTAL	---	---	23.419	32.914	0.166	15.799	11.833	0	0	0	---	---	TOTAL
MEAN	---	---	0.756	1.10	0.005	0.527	0.382	0	0	0	---	---	MEAN
MAX	---	---	6.35	8.33	0.019	2.14	2.91	0	0	0	---	---	MAX
MIN	---	---	0	0.004	0.001	0.166	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.343
MAXIMUM DAILY, 8.33 ON APR 02
MINIMUM DAILY, 0B ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 34 48 N
LONG 112 31 57 W
DRAINAGE AREA, 472 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 020
FEB	---	AUG	0
MAR	2 020	SEP	0
APR	2 840	OCT	0
MAY	14.3	NOV	---
JUN	1 370	DEC	---

TOTAL DISCHARGE, 7 260 dam³

MICHEL RESERVOIR NEAR ELKWATER - STATION NO. 11AB091

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	302.203	304.017	304.462	304.756	304.675	304.571	304.219	304.076	---	---	1
2	---	---	302.210	304.099	304.475	304.748	304.669	304.565	304.215	304.075	---	---	2
3	---	---	302.234	304.174	304.484	304.743	304.662	304.562	304.207	304.074	---	---	3
4	---	---	302.301	304.206	304.490	304.743	304.645	304.558	304.205	304.076	---	---	4
5	---	---	302.417	304.221	304.496	304.725	304.643	304.556	304.201	304.074	---	---	5
6	---	---	302.508	304.235	304.498	304.720	304.647	304.555	304.198	304.070	---	---	6
7	---	---	302.655	304.243	304.489	304.722	304.642	304.537	304.189	304.066	---	---	7
8	---	---	302.872	304.250	304.486	304.723	304.640	304.396	304.184	304.066	---	---	8
9	---	---	302.991	304.253	304.481	304.726	304.637	304.349	304.181	304.071	---	---	9
10	---	---	303.069	304.256	304.479	304.728	304.637	304.343	304.177	304.067	---	---	10
11	---	---	303.141	304.260	304.480	304.711	304.629	304.336	304.173	304.064	---	---	11
12	---	---	303.181	304.267	304.480	304.701	304.626	304.334	304.167	304.063	---	---	12
13	---	---	303.195	304.273	304.478	304.713	304.621	304.330	304.158	304.062	---	---	13
14	---	---	303.202	304.278	304.479	304.728	304.622	304.322	304.147	304.061	---	---	14
15	---	---	303.216	304.285	304.483	304.724	304.621	304.318	304.146	304.063	---	---	15
16	---	---	303.218	304.287	304.484	304.724	304.615	304.313	304.140	304.062	---	---	16
17	---	---	303.225	304.294	304.477	304.730	304.605	304.306	304.131	304.063	---	---	17
18	---	---	303.233	304.301	304.475	304.727	304.599	304.297	304.123	304.065	---	---	18
19	---	---	303.248	304.305	304.474	304.721	304.595	304.292	304.120	304.067	---	---	19
20	---	---	303.295	304.309	304.476	304.716	304.592	304.291	304.113	304.057	---	---	20
21	---	---	303.418	304.315	304.486	304.713	304.584	304.290	304.109	304.062	---	---	21
22	---	302.188A	303.459	304.322	304.492	304.706	304.582	304.280	304.106	304.063	---	---	22
23	---	302.189	303.471	304.329	304.492	304.705	304.582	304.274	304.113	304.061	---	---	23
24	---	302.184	303.483	304.344	304.513	304.705	304.583	304.263	304.108	304.069	---	---	24
25	---	302.187	303.491	304.367	304.704	304.701	304.577	304.261	304.109	304.077	---	---	25
26	---	302.190	303.499	304.384	304.763	304.702	304.579	304.260	304.100	304.039	---	---	26
27	---	302.194	303.524	304.404	304.775	304.694	304.588	304.261	304.093	303.870	---	---	27
28	---	302.198	303.594	304.423	304.782	304.685	304.590	304.259	304.084	303.829	---	---	28
29	---		303.696	304.440	304.778	304.683	304.585	304.247	304.080	303.825	---	---	29
30	---		303.826	304.449	304.770	304.680	304.583	304.240	304.078	303.822A	---	---	30
31	---		303.942		304.764		304.577	304.228		303.820E		---	31
MEAN	---	---	303.130	304.286	304.547	304.717	304.614	304.355	304.146	304.028	---	---	MEAN
MAX	---	---	303.942	304.449	304.782	304.756	304.675	304.571	304.219	304.077	---	---	MAX
MIN	---	---	302.203	304.017	304.462	304.680	304.577	304.228	304.078	303.820	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 304.782 ON MAY 28

MAXIMUM INSTANTANEOUS,
304.783 AT 19:58 CST ON MAY 27

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

REMARKS - THE PEAK WATER LEVEL OCCURRED DURING APERIOD OF POOR RECORD QUALITY

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 31 34 N
LONG 110 22 07 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA,
22.5 km²

MICHICHI CREEK AT DRUMHELLER - STATION NO. 05CE020

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.002B	1.63 B	0.012	0.012	0.080E	0.002	0.001	0	---	---	1
2	---	---	0.025B	0.916	0.017	0.036	0.054	0.002	0.001	0	---	---	2
3	---	---	0.052B	0.771	0.017	0.060	0.039	0.001	0.001	0	---	---	3
4	---	---	0.100B	0.602	0.013	0.160E	0.078	0	0.001	0	---	---	4
5	---	---	0.200B	0.432	0.019	0.300E	0.037	0	0	0	---	---	5
6	---	---	0.499B	0.358	0.021	0.140E	0.100E	0	0	0	---	---	6
7	---	---	1.37 B	0.308	0.013	0.040E	0.250E	0	0	0	---	---	7
8	---	---	1.14 B	0.278	0.019	0.063	0.140E	0	0	0	---	---	8
9	---	---	0.216B	0.256	0.013	0.048	0.098	0	0	0	---	---	9
10	---	---	0.266B	0.240B	0.013	0.051	0.082	0	0	0	---	---	10
11	---	---	0.066B	0.252	0.013	0.040	0.065	0	0	0	---	---	11
12	---	---	0.008B	0.263	0.033	0.121	0.050	0	0	0	---	---	12
13	---	---	0.206B	0.276	0.037	0.125	0.030	0	0	0	---	---	13
14	---	---	0.157B	0.315	0.022	0.067	0.024	0	0	0	---	---	14
15	---	---	0.384B	0.287	0.022	0.342	0.016	0	0	0	---	---	15
16	---	---	0.377B	0.308	0.014	0.141	0	0	0	0	---	---	16
17	---	---	0.248B	0.273	0.008	0.057	0	0	0	0	---	---	17
18	---	---	0.356B	0.248	0.008	0.100	0.071	0.184	0	0	---	---	18
19	---	---	0.605B	0.222	0.008	0.142	0.209	0.006	0	0	---	---	19
20	---	---	3.15 B	0.264	0.006	0.125	0.092	0.001	0	0	---	---	20
21	---	---	3.40 B	0.271	0.344	0.125	0.048	0.001	0	0	---	---	21
22	---	0.003B	0.582B	0.169	0.014	0.102	0.033	0.001	0	0	---	---	22
23	---	0.002B	0.504B	0.033	0.013	0.100	0.033	0.728	0	0	---	---	23
24	---	0.002B	0.400B	0.011	0.044	0.082	0.018	0.080	0	0	---	---	24
25	---	0.002B	0.300B	0.021	0.078	0.099	0.006	0.004	0	0	---	---	25
26	---	0.002B	0.164B	0.042	0.053	0.061	0.003	0.021	0	0	---	---	26
27	---	0.002B	0.339B	0.045	0.006	0.030	0.003	0.002	0	0	---	---	27
28	---	0.025B	0.840B	0.045	0.004	0.010E	0.003	0.001	0	0	---	---	28
29	---		0.697B	0.022	0.006	0.008E	0.002	0.001	0	0	---	---	29
30	---		1.24 B	0.019	0.010	0.006E	0.001	0.001	0	0	---	---	30
31	---		1.99 B		0.028		0.001	0.012		0E		---	31
TOTAL	---	---	19.883	9.177	0.928	2.793	1.666	1.048	0.004	0	---	---	TOTAL
MEAN	---	---	0.641	0.306	0.030	0.093	0.054	0.034	0	0	---	---	MEAN
MAX	---	---	3.40	1.63	0.344	0.342	0.250	0.728	0.001	0	---	---	MAX
MIN	---	---	0.002	0.011	0.004	0.006	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.145
MAXIMUM DAILY, 3.40B ON MAR 21
MINIMUM DAILY, 0 ON JUL 16

TYPE OF GAUGE - MANUAL
LOCATION - LAT 51 28 17 N
LONG 112 42 59 W
DRAINAGE AREA, 1 140 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	144
FEB	---	AUG	90.5
MAR	1 72)	SEP	0.346
APR	793	OCT	0
MAY	80.2	NOV	---
JUN	241	DEC	---

TOTAL DISCHARGE, 3 070 dam³

MIDDLE CREEK NEAR THE SASKATCHEWAN BOUNDARY - STATION NO. 11AB009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.029B	0.319	0.019	0.065	0.009	0.005	0.001	0.001	---	---	1
2	---	---	0.173B	0.373	0.011	0.057	0.010	0.003	0.001	0.001	---	---	2
3	---	---	0.279B	0.359	0.007	0.053	0.019	0.003	0.001	0.001	---	---	3
4	---	---	0.343B	0.423	0.010	0.045	0.013	0.003	0.001	0.002	---	---	4
5	---	---	1.03 B	0.363	0.015	0.038	0.011	0.002	0.001	0.002	---	---	5
6	---	---	1.30 B	0.191	0.019	0.033	0.015	0.002	0.001	0.002	---	---	6
7	---	---	1.59 B	0.113	0.015	0.037	0.014	0.002	0.001	0.002	---	---	7
8	---	---	1.60 B	0.067	0.017	0.035	0.012	0.002	0.001	0.002	---	---	8
9	---	---	1.54 B	0.047	0.017	0.030	0.010	0.001	0.001	0.002	---	---	9
10	---	---	1.12 B	0.032	0.017	0.029	0.009	0.001	0.001	0.002	---	---	10
11	---	---	1.06 B	0.027	0.019	0.028	0.011	0.001	0.001	0.003	---	---	11
12	---	---	1.19 B	0.022	0.025	0.025	0.009	0.002	0.001	0.003	---	---	12
13	---	---	0.594B	0.020	0.029	0.024	0.007	0.002	0.001	0.003	---	---	13
14	---	---	0.548B	0.018	0.028	0.023	0.007	0.002	0.001	0.003	---	---	14
15	---	---	0.272B	0.018	0.029	0.022	0.007	0.001	0.001	0.003	---	---	15
16	---	---	0.185B	0.021	0.033	0.021	0.008	0.001	0.001	0.003	---	---	16
17	---	---	0.162B	0.022	0.035	0.018	0.009	0.002	0.001	0.003	---	---	17
18	---	---	0.160B	0.021	0.049	0.014	0.007	0.003	0.001	0.004	---	---	18
19	---	---	0.219B	0.020	0.052	0.012	0.009	0.002	0.001	0.004	---	---	19
20	---	---	0.313B	0.013	0.044	0.014	0.007	0.002	0.001	0.004	---	---	20
21	---	---	0.343	0.008	0.050	0.016	0.006	0.002	0.001	0.003	---	---	21
22	---	0.002B	0.833	0.022	0.041	0.015	0.005	0.001	0.001	0.003	---	---	22
23	---	0.002B	0.423	0.022	0.034	0.013	0.005	0.001	0.001	0.004	---	---	23
24	---	0.002B	0.175	0.022	0.049	0.013	0.004	0.001	0.001	0.004	---	---	24
25	---	0.003B	0.123	0.021	3.93	0.012	0.004	0.002	0.001	0.004	---	---	25
26	---	0.004B	0.097	0.019	3.96	0.011	0.008	0.002	0.001	0.003	---	---	26
27	---	0.013B	0.071	0.020	1.20	0.014	0.014	0.002	0.001	0.003	---	---	27
28	---	0.011B	0.052	0.023	0.479	0.015	0.015	0.002	0.001	0.003	---	---	28
29	---		0.040	0.019	0.232	0.016	0.010	0.002	0.001	0.003	---	---	29
30	---		0.035	0.019	0.145	0.012	0.009	0.001	0.001	0.004A	---	---	30
31	---		0.101		0.094		0.007	0.001		0.004E		---	31
TOTAL	---	---	16.000	2.684	10.704	0.760	0.290	0.059	0.030	0.088	---	---	TOTAL
MEAN	---	---	0.516	0.090	0.345	0.025	0.009	0.002	0.001	0.003	---	---	MEAN
MAX	---	---	1.60	0.423	3.96	0.065	0.019	0.005	0.001	0.004	---	---	MAX
MIN	---	---	0.029	0.008	0.007	0.011	0.004	0.001	0.001	0.001	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.125
MAXIMUM DAILY, 3.96 ON MAY 26
MINIMUM DAILY, 0.001 ON AUG 09
MAXIMUM INSTANTANEOUS,
8.47 AT 17:57 CST ON MAY 25

SUMMARY FOR THE MONTHS MAR TO OCT

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 25 29 N
LONG 110 03 09 W
DRAINAGE AREA, 305 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	25.0
FEB	---	AUG	5.10
MAR	1 380	SEP	2.59
APR	212	OCT	7.60
MAY	925	NOV	---
JUN	65.7	DEC	---

TOTAL DISCHARGE, 2 640 dam³

MIETTE RIVER NEAR JASPER - STATION NO. 07AA001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.83B	1.90B	1.14 B	1.71B	4.96	75.1	47.9	18.6	11.7	4.62	4.38	3.03B	1
2	1.86B	2.02B	1.15 B	1.45B	5.27	65.4	47.1	16.0	10.4	5.21	4.20B	2.91B	2
3	1.75B	1.84B	1.09 B	1.65B	5.77	59.6	55.2	13.9	9.28	4.82	4.00B	2.74B	3
4	1.80B	1.65B	1.03 B	1.90B	6.72	58.4	48.8	13.0	8.16	5.06	4.06B	2.73B	4
5	1.79B	1.54B	1.04 B	2.10B	10.5	47.3	39.7	13.2	7.50	5.40	4.11B	2.80B	5
6	1.81B	1.43B	1.04 B	2.49B	18.5	39.5	52.9	13.8	7.11	4.88	3.85B	2.79B	6
7	1.86B	1.36B	1.03 B	2.29B	16.6	38.7	59.6	13.8	6.81	4.85	3.65B	2.64B	7
8	1.84B	1.22B	1.05 B	2.31B	13.3	37.1	48.0	12.7	6.60	4.73	3.68B	2.49B	8
9	1.80B	1.12B	0.894B	2.07B	11.3	37.5	45.0	12.6	6.27	4.82	3.44B	2.37B	9
10	1.78B	1.11B	0.992B	1.92B	9.80	38.0	42.1	12.0	6.16	4.96	3.45B	2.19B	10
11	1.40B	1.12B	0.959B	2.19B	9.36	47.6	40.3	11.7	6.03	4.78	3.14B	2.06B	11
12	1.46B	1.13B	0.910B	2.32	9.27	46.7	43.4	11.7	5.93	4.62	3.60B	1.95B	12
13	1.93B	1.01B	0.910B	2.35	8.49	50.1	46.7	11.8	5.83	4.53	6.74B	1.89B	13
14	1.89B	1.01B	1.01 B	2.41	7.86	42.7	37.3	13.8	5.58	4.30	6.00B	2.22B	14
15	1.62B	1.00B	1.01 B	2.56	7.82	43.0	30.1	13.0	5.52	3.87	4.78B	2.37B	15
16	1.57B	1.13B	1.04 B	2.66	8.77	51.3	28.7	12.0	8.47	3.89	4.16B	2.29B	16
17	1.28B	1.14B	1.04 B	5.82	9.97	58.4	25.7	12.7	17.8	3.96	3.83B	2.20B	17
18	1.31B	1.16B	0.993B	5.13	11.5	57.5	23.2	10.9	10.2	4.15	3.47B	2.01B	18
19	1.66B	1.15B	1.09 B	3.74	12.9	58.4	25.1	9.66	8.37	3.92	3.26B	1.86B	19
20	1.89B	1.16B	1.07 B	4.49	14.8	56.1	20.5	9.21	7.22	3.80	2.84B	1.86B	20
21	1.86B	1.14B	0.984B	5.60	17.2	55.4	19.1	9.10	6.71	3.77	2.56B	1.90B	21
22	1.78B	1.17B	0.720B	6.47	16.0	60.6	19.0	13.3	6.39	3.73	2.48B	2.00B	22
23	1.66B	1.12B	0.879B	7.02	19.0	76.4	20.2	16.4	6.18	3.67	2.40B	2.10B	23
24	1.61B	1.12B	0.929B	7.36	24.6	79.2	20.0	15.0	6.09	3.65	2.38B	2.12B	24
25	1.58B	1.06B	0.999B	7.79	31.3	68.7	19.8	12.5	5.86	4.64	2.40B	2.10B	25
26	1.54B	1.09B	1.03 B	7.12	45.1	58.5	20.8	12.4	5.53	13.8	2.52B	1.93B	26
27	1.45B	1.11B	1.04 B	6.30	50.3	51.6	22.7	10.6	5.20	7.95	2.89B	1.79B	27
28	1.38B	1.10B	0.996B	5.63	54.9	46.3	19.8	9.19	5.00	6.61	3.39B	1.57B	28
29	1.22B		1.03 B	5.10	63.8	42.7	18.6	8.48	4.96	5.96	3.43B	1.49B	29
30	1.14B		1.14 B	4.75	73.8	45.1	18.0	11.0	4.73	5.37	3.20B	1.68B	30
31	1.40B		1.34 B		80.9		19.5	13.1		4.72		1.78B	31
TOTAL	50.79	35.19	31.575	111.78	680.36	1 592.9	1 024.8	387.14	217.59	155.04	108.29	67.76	TOTAL
MEAN	1.64	1.26	1.02	3.73	21.9	53.1	33.1	12.5	7.25	5.00	3.61	2.19	MEAN
MAX	1.93	2.02	1.34	7.79	80.9	79.2	59.6	18.6	17.8	13.8	6.74	3.03	MAX
MIN	1.14	1.01	0.720	1.45	4.96	37.1	18.0	8.48	4.73	3.65	2.38	1.49	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 12.2
MAXIMUM DAILY, 80.9 ON MAY 31
MINIMUM DAILY, 0.720B ON MAR 22
MAXIMUM INSTANTANEOUS,
84.2 AT 01:07 MST ON JUN 24

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 51 50 N
LONG 118 06 21 W
DRAINAGE AREA, 630 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	4 390	JUL	88 500
FEB	3 040	AUG	33 400
MAR	2 730	SEP	16 800
APR	9 660	OCT	13 400
MAY	58 800	NOV	9 360
JUN	138 000	DEC	5 850

TOTAL DISCHARGE, 386 000 dam³

MILK RIVER AT EASTERN CROSSING OF INTERNATIONAL BOUNDARY - STATION NO. 11AA031

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	5.95B	12.7	20.1	53.0	19.1	18.7	15.7	15.3	---	---	1
2	---	---	8.50B	13.1	19.2	46.7	18.6	17.2	15.7	15.5	---	---	2
3	---	---	11.3 B	12.8	19.5	33.7	18.0	16.8	16.5	16.3	---	---	3
4	---	---	14.2 B	15.0	22.4	26.1	17.8	16.6	16.3	15.7	---	---	4
5	---	---	15.6 B	15.8	26.3	20.9	17.1	16.5	16.1	16.0	---	---	5
6	---	---	17.0 B	17.3	26.2	15.7	18.2	15.9	15.9	15.8	---	---	6
7	---	---	15.6 B	17.0	25.9	13.1	17.6	15.0	15.6	15.5	---	---	7
8	---	---	12.7 B	13.6	25.6	12.2	17.7	14.4	15.3	16.1	---	---	8
9	---	---	9.91B	10.3	25.9	9.97	18.2	14.0	15.1	15.8	---	---	9
10	---	---	7.08B	8.50	25.5	8.21	18.0	13.7	15.0	15.8	---	---	10
11	---	---	4.25B	9.09	25.9	9.91	17.6	13.8	15.1	16.8	---	---	11
12	---	---	3.54B	9.66	24.6	15.2	16.9	14.0	15.2	15.4	---	---	12
13	---	---	2.12B	9.77	24.4	18.8	16.0	14.1	15.0	14.8	---	---	13
14	---	---	1.98B	8.33	23.4	20.1	15.4	14.0	15.2	13.1	---	---	14
15	---	---	2.55B	7.79	23.2	19.6	15.3	13.9	15.0	11.0	---	---	15
16	---	---	4.53B	7.96	22.6	20.9	15.7	14.1	14.9	8.83	---	---	16
17	---	---	7.93B	8.61	22.6	21.4	15.9	14.3	14.5	7.31	---	---	17
18	---	---	8.50B	8.64	23.0	22.2	15.7	14.7	14.4	6.09	---	---	18
19	---	---	8.13	8.58	23.0	23.4	15.8	15.7	14.3	4.98	---	---	19
20	---	---	8.61	9.71	23.7	22.6	15.8	18.3	14.9	4.19	---	---	20
21	---	---	11.7	10.3	23.8	22.0	16.0	17.8	14.8	3.54	---	---	21
22	---	---	11.3 B	9.17	23.2	20.9	15.7	18.0	15.3	3.28	---	---	22
23	---	---	9.91B	9.97	22.1	21.2	16.1	16.8	15.6	3.09	---	---	23
24	---	---	9.06B	13.1	20.0	20.9	16.0	16.2	15.3	2.94E	---	---	24
25	---	---	9.34B	20.8	53.8	21.0	16.0	19.9	15.2	2.89E	---	---	25
26	---	---	9.91B	24.5	39.6E	21.9	17.7	19.4	15.2	2.78E	---	---	26
27	---	---	10.1	22.1	45.3E	20.9	19.5	18.0	15.4	2.66E	---	---	27
28	---	---	13.1	21.9	42.5E	20.3	19.2	17.4	14.8	2.49E	---	---	28
29	---	---	11.3	22.5	38.8E	19.7	19.0	17.0	14.8	2.38E	---	---	29
30	---		10.4	21.9	36.2	19.3	19.3	16.3	14.9	2.27E	---	---	30
31	---		10.6		47.6		20.5	15.8		2.15E		---	31
TOTAL	---	---	286.70	400.48	874.3	645.79	535.4	501.3	457.0	290.77	---	---	TOTAL
MEAN	---	---	9.25	13.3	28.2	21.5	17.3	16.2	15.2	9.38	---	---	MEAN
MAX	---	---	17.0	24.5	53.8	53.0	20.5	19.9	16.5	16.8	---	---	MAX
MIN	---	---	1.98	7.79	19.2	8.21	15.3	13.7	14.3	2.15	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 16.3
MAXIMUM DAILY, 53.8 ON MAY 25
MINIMUM DAILY, 1.98B ON MAR 14
MAXIMUM INSTANTANEOUS,
90.3 AT 02:45 MDT ON MAY 25

SUMMARY FOR THE MONTHS MAR TO OCT

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 59 03 N
LONG 110 28 10 W
DRAINAGE AREA, 6 490 km²

B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1917

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	46 300
FEB	---	AUG	43 300
MAR	24 800	SEP	39 500
APR	34 600	OCT	25 100
MAY	75 500	NOV	---
JUN	55 800	DEC	---

TOTAL DISCHARGE, 345 000 dam³

MILK RIVER AT MILK RIVER - STATION NO. 11AA005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.85 B	0.850B	4.55B	10.9	24.9	28.9	19.6	18.4	16.5	14.6	1.62	0.710B	1
2	1.80 B	0.900B	4.62B	11.1	26.3	21.3	19.4	17.9	16.5	14.6	1.58	0.520B	2
3	1.75 B	0.950B	5.31B	12.1	30.4	14.6	19.8	17.6	16.3	14.5	1.39 B	0.482B	3
4	1.63 B	0.960B	7.00B	12.7	28.5	10.7	19.7	17.2	16.3	14.5	1.24 B	0.490B	4
5	1.61 B	0.950B	8.47B	11.4	25.9	8.59	19.7	16.8	16.1	14.8	1.31 B	0.565B	5
6	1.48 B	0.930B	8.22B	8.79	24.9	7.80	20.2	16.5	16.0	14.7	1.69 B	0.635B	6
7	1.51 B	0.970B	8.29B	7.89	24.4	7.28	20.1	16.4	16.0	15.4	1.62	0.730B	7
8	1.57 B	1.04 B	6.88B	8.57	24.7	10.6	19.7	16.3	16.0	15.7	2.07	0.750B	8
9	1.67 B	0.931B	3.55B	9.48	25.1	14.2	19.8	16.4	16.0	16.5	1.94	0.705B	9
10	1.85 B	0.956B	2.95B	9.07B	24.4	17.6	19.4	16.3	15.8	15.4	2.03	0.675B	10
11	1.83 B	1.02 B	2.80B	7.64B	24.1	18.5	19.3	16.2	15.8	12.8	1.96 B	0.700B	11
12	1.81 B	1.45 B	2.90B	8.04B	23.7	18.7	19.0	16.1	15.6	9.74	1.85	0.802B	12
13	1.79 B	1.38 B	2.97B	8.60	23.4	19.2	19.0	16.1	15.5	7.54	2.05	0.875B	13
14	1.77 B	1.35 B	2.80B	9.24	23.0	21.1	18.9	16.0	15.4	5.91	2.21	0.980B	14
15	1.75 B	1.29 B	2.50B	9.47	23.0	22.3	18.7	15.8	15.3	4.64	1.49 B	1.08 B	15
16	1.73 B	1.31 B	3.87B	10.2	22.9	22.6	18.5	15.8	15.2	3.80	1.32 B	1.12 B	16
17	1.71 B	1.30 B	5.25B	11.6	22.6	22.4	18.3	16.3	15.4	3.14	1.20 B	1.13 B	17
18	1.68 B	1.20 B	4.55B	12.0	22.1	22.0	18.2	16.7	15.1	2.60	1.08 B	1.03 B	18
19	1.66 B	0.901B	5.60B	11.0	21.7	21.5	18.0	17.1	15.1	2.33	0.955B	0.900B	19
20	1.64 B	0.770B	6.80B	12.3	21.4	21.4	18.2	16.8	15.0	2.18	0.865B	0.770B	20
21	1.62 B	0.790B	9.50B	14.1	21.0	21.6	18.0	16.8	15.0	2.10	0.845B	0.590B	21
22	1.60 B	0.990B	10.0 B	17.3	20.6	21.9	17.9	16.9	14.9	2.02	0.910B	0.460B	22
23	1.63 B	4.07 B	6.17B	21.6	20.4	22.6	18.0	16.7	14.8	1.95	0.925B	0.415B	23
24	1.62 B	5.68 B	4.52B	24.4	20.6	22.3	17.9	17.0	14.8	1.77	0.825B	0.365B	24
25	1.60 B	7.38 B	5.47B	25.8	25.8	22.0	18.3	17.2	14.6	1.63	0.755B	0.330B	25
26	1.59 B	8.71 B	6.82B	26.6	24.2	21.6	18.9	17.4	14.7	1.56	0.735B	0.315B	26
27	1.50 B	8.98 B	6.60B	26.9	24.6	21.3	18.5	17.2	14.7	1.50	0.797B	0.275B	27
28	1.43 B	6.32 B	5.78	27.1	23.2	21.0	19.8	17.0	14.7	1.48	0.805B	0.210B	28
29	1.28 B		6.87	25.8	27.1	20.4	19.2	16.9	14.8	1.45	0.830B	0.191B	29
30	1.09 B		7.60	24.6	37.6	20.0	18.5	16.8	14.8	1.48	0.835B	0.175B	30
31	0.900B		9.19		38.7		18.4	16.8		1.59		0.169B	31
TOTAL	49.950	64.328	178.40	436.29	771.4	565.97	586.9	519.1	462.7	223.61	39.732	19.152	TOTAL
MEAN	1.61	2.30	5.75	14.5	24.9	18.9	18.9	16.7	15.4	7.21	1.32	0.618	MEAN
MAX	1.85	8.98	10.0	27.1	38.7	28.9	20.2	18.4	16.5	16.5	2.21	1.13	MAX
MIN	0.900	0.770	2.50	7.64	20.4	7.28	17.9	15.8	14.6	1.45	0.735	0.169	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 15.3
MAXIMUM DAILY, 38.7 ON MAY 31
MINIMUM DAILY, 1.45 ON OCT 29
MAXIMUM INSTANTANEOUS,
42.5 AT 02:40 MST ON MAY 31

SUMMARY FOR THE MONTHS MAR TO OCT

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 08 37 N
LONG 112 04 44 W
DRAINAGE AREA, 2 720 km²

B - ICE CONDITIONS

REGULATED SINCE 1916

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	49.95	JUL	50 700
FEB	64.328	AUG	44 900
MAR	15 400	SEP	40 000
APR	37 700	OCT	19 300
MAY	66 600	NOV	39.732
JUN	48 900	DEC	19.152

TOTAL DISCHARGE, 324 000 dam³

MILK RIVER AT WESTERN CROSSING OF INTERNATIONAL BOUNDARY - STATION NO. 11AA025

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	2.18B	8.72	7.14	9.59	1.54	1.05	0.373	0.107	0.906A	---	1
2	---	---	1.14B	9.99	9.45	7.75	1.45	0.887	0.324	0.099	---	---	2
3	---	---	3.25B	10.4	11.0	6.82	1.34	0.967	0.283	0.101	---	---	3
4	---	---	4.30B	10.3	8.42	6.19	1.33	0.739	0.250	0.144	---	---	4
5	---	---	4.22B	7.76	7.32	5.45	1.40	0.596	0.221	0.149	---	---	5
6	---	---	3.97B	6.06	7.04	5.08	1.42	0.563	0.211	0.189	---	---	6
7	---	---	3.74B	5.76	7.21	4.72	1.44	0.529	0.188	1.03	---	---	7
8	---	---	3.44B	5.92	7.56	4.45	1.47	0.470	0.165	1.54	---	---	8
9	---	---	3.05B	6.34	6.99	4.67	1.39	0.435	0.158	1.12	---	---	9
10	---	---	2.55B	4.65B	6.67	4.29	1.30	0.385	0.134	0.924	---	---	10
11	---	---	2.06B	4.41B	6.39	3.94	1.19	0.325	0.110	0.877	---	---	11
12	---	---	1.96B	4.63	6.40	3.65	1.02	0.309	0.091	0.873	---	---	12
13	---	---	2.08B	5.25	6.07	3.75	0.937	0.271	0.076	1.05	---	---	13
14	---	---	2.01B	5.26	6.29	4.26	0.935	0.250	0.064	1.02	---	---	14
15	---	---	1.95B	5.62	6.19	4.77	0.821	0.232	0.052	1.01	---	---	15
16	---	---	2.10B	7.10	6.14	4.40	0.744	0.250	0.044	0.972	---	---	16
17	---	---	2.82B	7.72	6.11	3.77	0.688	0.300	0.031	0.895	---	---	17
18	---	---	3.44B	6.81	5.58	3.26	0.630	1.00	0.030	0.844	---	---	18
19	---	---	4.25B	7.31	5.27	2.94	0.627	0.469	0.026	0.882	---	---	19
20	---	---	5.32B	9.24	5.25	2.81	0.609	0.536	0.020	0.843	---	---	20
21	---	---	9.25B	10.0	5.24	2.80	0.695	0.508	0.021	0.838	---	---	21
22	---	---	8.55B	11.1	5.31	3.27	1.08	0.819	0.020	0.863	---	---	22
23	---	---	6.85B	10.6	4.90	3.30	1.17	0.927	0.048	0.840	---	---	23
24	---	---	5.00B	10.1	5.00	2.77	0.964	0.721	0.095	0.766	---	---	24
25	---	---	3.73B	8.94	6.19	2.44	0.789	0.623	0.166	0.768	---	---	25
26	---	---	2.67B	8.30	8.17	2.21	1.11	0.580	0.170	0.766	---	---	26
27	---	---	2.62B	7.69	7.19	2.01	3.37	0.595	0.159	0.726	---	---	27
28	---	2.91B	4.55	7.59	6.25	1.82	2.74	0.668	0.145	0.747	---	---	28
29	---		4.83	7.00	8.24	1.72	1.87	0.665	0.121	0.858	---	---	29
30	---		5.71	6.50	21.4	1.62	1.48	0.559	0.112	0.930	---	---	30
31	---		7.76		15.9		1.32	0.446		0.904		---	31
TOTAL	---	---	121.35	227.07	232.29	120.52	38.869	17.674	3.908	23.675	---	---	TOTAL
MEAN	---	---	3.91	7.57	7.49	4.02	1.25	0.570	0.130	0.764	---	---	MEAN
MAX	---	---	9.25	11.1	21.4	9.59	3.37	1.05	0.373	1.54	---	---	MAX
MIN	---	---	1.14	4.41	4.91	1.62	0.609	0.232	0.020	0.099	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.21
MAXIMUM DAILY, 21.4 ON MAY 30
MINIMUM DAILY, 0.020 ON SEP 20
MAXIMUM INSTANTANEOUS,
23.9 AT 15:12 MST ON MAY 30

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 00 27 N
LONG 112 32 42 W
DRAINAGE AREA, 1 050 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 360
FEB	---	AUG	1 530
MAR	10 500	SEP	338
APR	19 600	OCT	2 050
MAY	20 100	NOV	---
JUN	10 400	DEC	---

TOTAL DISCHARGE, 67 900 dam³

MILK RIVER RIDGE RESERVOIR - STATION NO. 05AF030

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1 021.106E1	021.199	1 021.637	1 022.419	1 021.977	1 021.847	1 021.855	1 021.064	1 021.234A	---	1
2	---	---	1 021.107E1	021.205	1 021.722	1 022.386	1 021.956	1 021.878	1 021.852	1 021.042	---	---	2
3	---	---	1 021.109E1	021.207	1 021.794	1 022.365	1 021.943	1 021.891	1 021.842	1 021.034	---	---	3
4	---	---	1 021.110E1	021.200	1 021.793	1 022.325	1 021.937	1 021.921	1 021.842	1 021.051	---	---	4
5	---	---	1 021.111E1	021.203	1 021.787	1 022.287	1 021.925	1 021.929	1 021.827	1 021.030	---	---	5
6	---	---	1 021.114A1	021.205	1 021.779	1 022.271	1 021.909	1 021.931	1 021.778	1 020.981	---	---	6
7	---	---	1 021.117E1	021.207	1 021.770	1 022.257	1 021.882	1 021.926	1 021.730	1 020.954	---	---	7
8	---	---	1 021.120E1	021.200	1 021.772	1 022.243	1 021.873	1 021.923	1 021.677	1 020.953	---	---	8
9	---	---	1 021.122E1	021.203	1 021.799	1 022.242	1 021.863	1 021.913	1 021.628	1 020.955	---	---	9
10	---	---	1 021.125E1	021.207	1 021.829	1 022.242	1 021.849	1 021.897	1 021.579	1 021.025	---	---	10
11	---	---	1 021.128E1	021.214	1 021.868	1 022.233	1 021.833	1 021.879	1 021.502	1 021.156	---	---	11
12	---	---	1 021.131E1	021.218	1 021.899	1 022.178	1 021.810	1 021.865	1 021.447	1 021.225	---	---	12
13	---	---	1 021.134A1	021.229	1 021.940	1 022.146	1 021.795	1 021.848	1 021.406	1 021.239	---	---	13
14	---	---	1 021.126 1	021.236	1 021.975	1 022.107	1 021.765	1 021.835	1 021.360	1 021.241	---	---	14
15	---	---	1 021.127 1	021.240	1 022.00[illegible]	1 022.254	1 021.748	1 021.814	1 021.338	1 021.246	---	---	15
16	---	---	1 021.126 1	021.239	1 022.[illegible]9	1 022.295	1 021.722	1 021.801	1 021.324	1 021.245	---	---	16
17	---	---	1 021.127 1	021.249	1 022.044	1 022.326	1 021.696	1 021.795	1 021.314	1 021.252	---	---	17
18	---	---	1 021.129 1	021.252	1 022.023	1 022.346	1 021.668	1 021.780	1 021.310	1 021.256	---	---	18
19	---	---	1 021.136 1	021.258	1 022.035	1 022.363	1 021.640	1 021.767	1 021.293	1 021.252	---	---	19
20	---	---	1 021.138 1	021.253	1 022.052	1 022.368	1 021.620	1 021.798	1 021.281	1 021.250	---	---	20
21	---	---	1 021.137 1	021.249	1 022.068	1 022.336	1 021.608	1 021.811	1 021.271	1 021.254	---	---	21
22	---	---	1 021.133 1	021.245	1 022.081	1 022.242	1 021.595	1 021.797	1 021.261	1 021.249	---	---	22
23	---	---	1 021.136 1	021.241	1 022.099	1 022.153	1 021.574	1 021.781	1 021.244	1 021.250	---	---	23
24	---	---	1 021.138 1	021.238	1 022.111	1 022.121	1 021.549	1 021.758	1 021.226	1 021.260	---	---	24
25	---	---	1 021.149 1	021.268	1 022.170	1 022.122	1 021.536	1 021.773	1 021.207	1 021.265	---	---	25
26	---	---	1 021.158 1	021.313	1 022.208	1 022.107	1 021.539	1 021.794	1 021.179	1 021.256	---	---	26
27	---	---	1 021.157 1	021.369	1 022.245	1 022.052	1 021.557	1 021.812	1 021.157	1 021.252	---	---	27
28	---	1 021.104A	1 021.165 1	021.419	1 022.272	1 022.018	1 021.596	1 021.822	1 021.142	1 021.256	---	---	28
29	---		1 021.175 1	021.477	1 022.333	1 021.998	1 021.633	1 021.831	1 021.096	1 021.250	---	---	29
30	---		1 021.184 1	021.553	1 022.408	1 021.991	1 021.686	1 021.834	1 021.073	1 021.250	---	---	30
31	---		1 021.186		1 022.434		1 021.769	1 021.849		1 021.248		---	31
MEAN	---	---	1 021.134	1 021.260	1 022.000	1 022.229	1 021.744	1 021.842	1 021.435	1 021.169	---	---	MEAN
MAX	---	---	1 021.186	1 021.553	1 022.434	1 022.419	1 021.977	1 021.931	1 021.855	1 021.265	---	---	MAX
MIN	---	---	1 021.106	1 021.199	1 021.637	1 021.991	1 021.536	1 021.758	1 021.073	1 020.953	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 1 022.434 ON MAY 31
MINIMUM DAILY, 999.000 ON JAN 1
MAXIMUM INSTANTANEOUS,
1 022.444 AT 15:55 MST ON MAY 31

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 23 00 N
LONG 112 35 39 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED

DRAINAGE AREA,
180 km²

WATER LEVELS ARE REFERRED TO PRAIRIE FARM REHABILITATION ADMINISTRATION DATUM
APPLY 9.741 m ADJUSTMENT TO CONVERT TO GEODETIC SURVEY OF CANADA DATUM

MINERS COULEE NEAR INTERNATIONAL BOUNDARY - STATION NO. 11AA029

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.080B	0.660	0.221	0.697	0.053	0	0	0	---	---	1
2	---	---	0.056B	0.710	0.226	0.368	0.047	0	0	0	---	---	2
3	---	---	0.050B	0.762	0.217	0.537	0.052	0	0	0	---	---	3
4	---	---	0.048B	0.602	0.175	0.496	0.051	0	0	0	---	---	4
5	---	---	0.053B	0.401	0.214	0.422	0.055	0	0	0	---	---	5
6	---	---	0.063B	0.282	0.323	0.361	0.080	0	0	0	---	---	6
7	---	---	0.073B	0.221	0.378	0.269	0.070	0	0	0	---	---	7
8	---	---	0.077B	0.202	0.396	0.226	0.070	0	0	0	---	---	8
9	---	---	0.067B	0.188B	0.324	0.202	0.056	0	0	0	---	---	9
10	---	---	0.092B	0.154B	0.262	0.191	0.047	0	0	0	---	---	10
11	---	---	0.076B	0.137B	0.234	0.179	0.037	0	0	0	---	---	11
12	---	---	0.050B	0.198	0.209	0.159	0.030	0	0	0	---	---	12
13	---	---	0.012B	0.260	0.195	0.135	0.023	0	0	0	---	---	13
14	---	---	0.018B	0.269	0.179	0.168	0.017	0	0	0	---	---	14
15	---	---	0.017B	0.279	0.146	0.149	0.014	0	0	0	---	---	15
16	---	---	0.040B	0.240	0.130	0.108	0.009	0	0	0	---	---	16
17	---	---	0.045B	0.200	0.125	0.104	0.003	0	0	0	---	---	17
18	---	---	0.049B	0.179	0.131	0.276	0.002	0	0	0	---	---	18
19	---	---	0.087B	0.170	0.179	0.285	0.002	0	0	0	---	---	19
20	---	---	0.135B	0.182	0.211	0.265	0.002	0	0	0	---	---	20
21	---	---	0.450B	0.221	0.207	0.232	0.001	0	0	0	---	---	21
22	---	---	0.380B	0.283	0.183	0.187	0.001	0	0	0	---	---	22
23	---	---	0.233B	0.329	0.158	0.151	0.001	0	0	0	---	---	23
24	---	---	0.206B	0.299	0.175	0.121	0.001	0	0	0	---	---	24
25	---	---	0.143B	0.247	0.463	0.099	0.001	0	0	0	---	---	25
26	---	---	0.137B	0.234	0.899	0.086	0	0	0	0	---	---	26
27	---	0.102B	0.141B	0.265	0.925	0.077	0.001	0	0	0	---	---	27
28	---	0.127B	0.179	0.251	0.704	0.073	0	0	0	0	---	---	28
29	---		0.302	0.221	0.561	0.070	0	0	0	0	---	---	29
30	---		0.521	0.190	0.697	0.066	0	0	0	0	---	---	30
31	---		0.709		0.864		0	0		0A		---	31
TOTAL	---	---	4.589	8.836	10.311	6.959	0.726	0	0	0	---	---	TOTAL
MEAN	---	---	0.148	0.295	0.333	0.232	0.023	0	0	0	---	---	MEAN
MAX	---	---	0.709	0.762	0.925	0.697	0.080	0	0	0	---	---	MAX
MIN	---	---	0.012	0.137	0.125	0.066	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.128
MAXIMUM DAILY, 0.925 ON MAY 27
MINIMUM DAILY, 0 ON JUL 26
MAXIMUM INSTANTANEOUS,
1.05 AT 18:10 MST ON MAY 26

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 01 05 N
LONG 111 24 10 W
DRAINAGE AREA, 109 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	62.7
FEB	---	AUG	0
MAR	396	SEP	0
APR	763	OCT	0
MAY	891	NOV	---
JUN	601	DEC	---

TOTAL DISCHARGE, 2 710 dam³

MINISTIK LAKE NEAR NEW SAREPTA - STATION NO. 05EB013

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	757.019	756.959	757.021	756.961	756.879	756.883A	---	1
2	---	---	---	---	---	757.013A	756.956	757.017	756.963	756.897	---	---	2
3	---	---	---	---	---	---	756.998A	757.009	756.960	756.885	---	---	3
4	---	---	---	---	---	---	---	757.007	756.954	756.878	---	---	4
5	---	---	---	757.159A	---	---	757.030A	757.002	756.953	756.889	---	---	5
6	---	---	---	---	---	---	757.067	757.000	756.950	756.889	---	---	6
7	---	---	---	---	757.085A	---	757.113	756.995	756.951	756.888	---	---	7
8	---	---	---	---	---	---	757.116	756.990	756.944	756.886	---	---	8
9	---	---	---	---	---	---	757.113	756.980	756.942	756.888	---	---	9
10	---	---	---	---	---	---	757.110	756.979	756.940	756.899	---	---	10
11	---	---	---	---	---	---	757.100	756.976	756.937	756.890	---	---	11
12	---	---	---	---	---	---	757.090	756.971	756.939	756.889	---	---	12
13	---	---	757.028A	---	---	---	757.091	756.971	756.932	756.894	---	---	13
14	---	---	---	---	---	---	757.079	756.960	756.932	756.891	---	---	14
15	---	---	---	---	---	---	757.069	756.957	756.920	756.886	---	---	15
16	---	---	---	---	---	---	757.071	756.963	756.916	756.886	---	---	16
17	---	---	---	---	---	---	757.072	756.965	756.923	756.883	---	---	17
18	---	---	---	---	---	---	757.067	756.964	756.913	756.881	---	---	18
19	---	---	---	---	---	---	757.065	756.964	756.919	756.895	---	---	19
20	---	---	---	---	757.059A	---	757.066	756.961	756.910	756.884	---	---	20
21	---	---	---	---	757.053	---	757.063	756.960	756.911	756.883	---	---	21
22	---	---	---	---	757.041	---	757.059	756.963	756.899	756.883	---	---	22
23	---	---	---	---	757.036	---	757.056	756.962	756.902	756.882	---	---	23
24	---	---	---	---	757.038	---	757.053	756.954	756.900	756.879	---	---	24
25	---	---	---	---	757.027	756.976A	757.047	756.952	756.900	756.879	---	---	25
26	---	---	---	---	757.025	756.976	757.046	756.950	756.896	756.887	---	---	26
27	---	---	---	---	757.022	756.977	757.050	756.950	756.896	756.878	---	---	27
28	---	---	---	---	757.018	756.970	757.042	756.949	756.884	756.885	---	---	28
29	---		---	---	757.012	756.967	757.034	756.947	756.888	756.879	---	---	29
30	---		---	---	757.010	756.961	757.025	756.953	756.885	756.876	---	---	30
31	---		---		757.013		757.025	756.965		756.876		---	31
MEAN	---	---	---	---	---	---	---	756.973	756.924	756.885	---	---	MEAN
MAX	---	---	---	---	---	---	---	757.021	756.963	756.899	---	---	MAX
MIN	---	---	---	---	---	---	---	756.947	756.884	756.876	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 19 47 N
LONG 113 03 20 W

A - MANUAL GAUGE
E - ESTIMATED

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

DRAINAGE AREA,
80.3 km²

MIQUELON LAKE AT PROVINCIAL PARK - STATION NO. 05EB014

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	---	762.648	762.568	762.481	762.149	---	1
2	---	---	---	---	---	762.537	762.663	---	---	762.505	---	---	2
3	---	---	---	---	---	---	---	762.648	762.566	762.470	---	---	3
4	---	---	---	---	---	762.537	762.663	---	762.561	762.477	---	---	4
5	---	---	---	762.549	---	---	762.632	---	762.563	---	---	---	5
6	---	---	---	---	---	762.539	762.665	762.639	---	---	---	---	6
7	---	---	---	---	762.587	762.539	---	---	---	---	---	---	7
8	---	---	---	---	---	---	762.667	762.637	762.563	---	---	---	8
9	---	---	---	---	---	762.539	762.669	762.637	---	762.467	---	---	9
10	---	---	---	---	---	762.539	---	---	762.559	762.475	---	---	10
11	---	---	---	---	---	---	762.683	762.633	---	---	---	---	11
12	---	---	---	---	---	762.541	762.683	---	762.563	762.482	---	---	12
13	---	---	762.503	---	---	---	---	762.629	762.561	---	---	---	13
14	---	---	---	---	---	762.547	---	---	762.558	762.481	---	---	14
15	---	---	---	---	762.579	762.547	762.675	762.625	---	762.471	---	---	15
16	---	---	---	---	---	---	---	---	---	762.469	---	---	16
17	---	---	---	---	762.579	762.547	762.669	762.621	762.562	---	---	---	17
18	---	---	---	---	---	---	---	762.615	762.563	762.471	---	---	18
19	---	---	---	---	762.579	762.547	762.667	---	---	---	---	---	19
20	---	---	---	---	---	---	762.667	---	762.551	---	---	---	20
21	---	---	---	---	762.575	---	---	---	762.537	---	---	---	21
22	---	---	---	---	---	762.547	---	762.609	---	---	---	---	22
23	---	---	---	---	762.575	762.547	762.663	762.607	---	762.461	---	---	23
24	---	---	---	---	762.575	---	---	762.607	---	762.459	---	---	24
25	---	---	---	---	---	762.547	762.663	762.603	762.514	762.457	---	---	25
26	---	---	---	---	---	---	762.664	---	762.487	762.455	---	---	26
27	---	---	---	---	---	762.549	762.663	---	762.514	---	---	---	27
28	---	---	---	---	---	---	---	---	762.521	762.471	---	---	28
29	---		---	---	---	762.551	---	762.559	---	---	---	---	29
30	---		---	---	762.560	762.553	762.648	762.569	---	762.451	---	---	30
31	---		---		762.571		762.648	762.577		762.461		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 53 14 47 N
LONG 112 54 24 W

A - MANUAL GAUGE

E - ESTIMATED

DRAINAGE AREA, 38.3 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

MISTAYA RIVER NEAR SASKATCHEWAN CROSSING - STATION NO. 05DA007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.893B	0.770B	0.600B	0.564B	1.94	18.9	25.9	22.5	12.1	5.75	2.27B	1.60 B	1
2	0.885B	0.750B	0.600B	0.572B	1.97	20.1	23.8	23.3	10.8	5.34	2.10B	1.50 B	2
3	0.900B	0.760B	0.600B	0.580B	1.99	18.3	24.1	20.2	9.91	4.89	2.00B	1.60 B	3
4	0.880B	0.780B	0.610B	0.572B	2.12	17.5	22.2	18.0	9.37	5.39	1.90B	1.64 B	4
5	0.890B	0.795B	0.605B	0.562B	2.50	15.4	20.6	17.9	8.99	6.55	1.95B	1.50 B	5
6	0.895B	0.815B	0.590B	0.552B	3.70	13.1	24.5	19.5	9.10	6.03	1.90B	1.60 B	6
7	0.900B	0.800B	0.600B	0.550B	3.85	11.8	28.1	21.4	9.45	5.11	1.88B	1.60 B	7
8	0.900B	0.780B	0.610B	0.540B	3.72	11.1	26.7	20.8	10.1	4.51	1.84B	1.55 B	8
9	0.900B	0.750B	0.620B	0.530B	3.61	10.5	26.0	20.1	10.4	4.14	1.84B	1.50 B	9
10	0.891B	0.770B	0.615B	0.518B	3.51	10.8	26.2	19.7	10.6	3.97	1.88B	1.40 B	10
11	0.870B	0.735B	0.603B	0.550B	3.47	13.1	26.1	19.9	10.7	3.69	2.00B	1.28 B	11
12	0.810B	0.800B	0.595B	0.600B	3.40	12.7	28.2	20.8	10.9	3.42	2.50B	1.18 B	12
13	0.850B	0.770B	0.582B	0.670B	3.32	11.6	32.0	22.2	10.1	3.24	3.59B	1.10 B	13
14	0.900B	0.700B	0.570B	0.730B	3.23	10.5	32.7	23.7	9.32	3.04	3.22B	1.14 B	14
15	0.860B	0.650B	0.580B	0.790B	3.08	10.3	28.4	24.3	9.42	2.83	2.90B	1.15 B	15
16	0.830B	0.660B	0.580B	0.850B	3.01	11.4	27.4	22.7	10.1	2.73	2.60B	1.17 B	16
17	0.795B	0.670B	0.575B	0.910B	2.99	13.7	26.2	21.4	9.93	2.63	2.50B	1.20 B	17
18	0.785B	0.630B	0.570B	0.970B	2.99	15.7	22.3	19.7	8.71	2.56	2.35B	1.20 B	18
19	0.800B	0.600B	0.565B	1.30 B	3.07	16.0	20.1	18.5	7.81	2.47	2.30B	1.00 B	19
20	0.815B	0.610B	0.560B	1.99	3.18	15.9	18.1	17.9	7.24	2.52	2.30B	0.830B	20
21	0.827B	0.620B	0.552B	2.20	3.40	16.2	16.7	19.7	6.69	2.32	2.30B	0.700B	21
22	0.835B	0.610B	0.550B	2.33	3.51	16.7	16.4	23.0	6.32	2.25	2.30B	0.730B	22
23	0.840B	0.600B	0.550B	2.50	3.71	24.5	17.2	22.7	6.42	2.21	2.35B	0.760B	23
24	0.840B	0.630B	0.555B	2.72	4.18	28.0	19.6	18.0	7.47	2.13	2.40B	0.800B	24
25	0.835B	0.625B	0.565B	2.63	5.53	29.4	19.9	14.6	8.28	2.20	2.30B	0.830B	25
26	0.830B	0.620B	0.570B	2.48	7.65	28.4	19.5	13.0	8.51	2.57	2.00B	0.850B	26
27	0.825B	0.605B	0.570B	2.34	8.74	28.0	20.4	11.3	7.91	2.52	1.60B	0.860B	27
28	0.820B	0.600B	0.568B	2.20	10.0	26.8	21.3	10.1	7.25	2.57	1.50B	0.800B	28
29	0.812B		0.565B	2.05	10.9	24.2	20.4	9.37	6.63	2.55	1.60B	0.700B	29
30	0.800B		0.563B	1.97	15.2	24.0	20.3	10.5	6.16	2.44	1.70B	0.760B	30
31	0.790B		0.562B		18.0		21.1	12.7		2.37B		0.860B	31
TOTAL	26.303	19.505	18.000	38.320	151.47	526.6	722.4	579.17	266.59	106.94	65.95	35.390	TOTAL
MEAN	0.849	0.697	0.581	1.28	4.89	17.6	23.3	18.7	8.89	3.45	2.20	1.14	MEAN
MAX	0.900	0.815	0.620	2.72	18.0	29.4	32.7	24.3	12.1	6.55	3.59	1.64	MAX
MIN	0.785	0.600	0.550	0.518	1.94	10.3	16.4	9.37	6.16	2.13	1.50	0.700	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 7.00
MAXIMUM DAILY, 32.7 ON JUL 14
MINIMUM DAILY, 0.518B ON APR 10
MAXIMUM INSTANTANEOUS,
33.7 AT 06:04 MST ON JUL 14

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 53 04 N
LONG 116 41 17 W

DRAINAGE AREA, 249 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	2 270	JUL	62 400
FEB	1 690	AUG	50 000
MAR	1 560	SEP	23 000
APR	3 310	OCT	9 240
MAY	13 100	NOV	5 700
JUN	45 500	DEC	3 060

TOTAL DISCHARGE, 221 000 dam³

MITCHELL RESERVOIR NEAR ELKWATER - STATION NO. 11AB099

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	---	---	---	---	---	---	1
2	---	---	---	---	---	---	---	---	---	---	---	---	2
3	---	---	---	---	---	---	---	---	---	---	---	---	3
4	---	---	---	---	---	---	---	---	---	---	---	---	4
5	---	---	---	33.840	---	---	33.719	---	---	---	---	---	5
6	---	---	---	---	---	33.834	---	---	33.441	---	---	---	6
7	---	---	33.007	33.835E	33.818	33.830E	33.705E	33.586	33.435E	33.295E	---	---	7
8	---	---	---	---	---	---	---	---	---	---	---	---	8
9	---	---	---	---	---	---	---	---	---	33.291	---	---	9
10	---	---	---	---	---	---	---	---	---	---	---	---	10
11	---	---	---	---	---	---	---	---	---	---	---	---	11
12	---	---	---	---	---	---	---	---	---	---	---	---	12
13	---	---	---	---	---	---	---	---	---	---	---	---	13
14	---	---	---	---	---	---	---	---	---	---	---	---	14
15	---	---	33.587	---	---	---	---	---	---	---	---	---	15
16	---	---	---	---	---	---	---	33.524	---	---	---	---	16
17	---	---	33.605E	33.811	33.797	33.800E	33.660	33.520E	33.381	33.293E	---	---	17
18	---	---	---	---	---	33.799	---	---	---	33.293	---	---	18
19	---	---	---	---	---	---	---	---	---	---	---	---	19
20	---	---	---	---	---	---	---	---	---	---	---	---	20
21	---	---	---	---	---	---	---	---	---	---	---	---	21
22	---	32.681	---	---	---	---	---	---	---	---	---	---	22
23	---	---	---	---	---	---	---	---	---	---	---	---	23
24	---	---	---	---	---	---	---	---	---	---	---	---	24
25	---	32.681E	---	---	---	---	---	---	33.339	---	---	---	25
26	---	---	---	---	---	33.761	---	---	---	---	---	---	26
27	---	---	33.681	33.820E	---	33.760E	---	---	33.320E	---	---	---	27
28	---	32.760E	33.690E	---	33.885	---	33.640E	33.495	---	33.220E	---	---	28
29	---	---	---	---	---	---	---	---	---	---	---	---	29
30	---		---	33.820	---	33.740E	33.635	---	---	---	---	---	30
31	---		33.740E		33.875E		33.625E	33.475E	33.315E	33.206	---	---	31
										33.200E			
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 33.885 ON MAY 28

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 28 28 N
LONG 110 05 24 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA, 60.3 km²

MONITOR CREEK NEAR CONSORT - STATION NO. 05GA011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.099	0	0	0	0	0	0	---	---	1
2	---	---	0 B	0.075	0	0	0	0	0	0	---	---	2
3	---	---	0 B	0.060	0	0	0	0	0	0	---	---	3
4	---	---	0 B	0.075	0	0	0	0	0	0	---	---	4
5	---	---	0 B	0.074	0	0	0	0	0	0	---	---	5
6	---	---	0 B	0.070	0	0	0	0	0	0	---	---	6
7	---	---	0 B	0.101	0	0	0	0	0	0	---	---	7
8	---	---	0 B	0.073	0	0	0	0	0	0	---	---	8
9	---	---	0.009B	0.052	0	0	0	0	0	0	---	---	9
10	---	---	0.011B	0.033	0	0	0	0	0	0	---	---	10
11	---	---	0.024B	0.022	0	0	0	0	0	0	---	---	11
12	---	---	0.011B	0.017	0	0	0	0	0	0	---	---	12
13	---	---	0.009B	0.014	0	0	0	0	0	0	---	---	13
14	---	---	0.005B	0.012	0	0	0	0	0	0	---	---	14
15	---	---	0.004B	0.009	0	0	0	0	0	0	---	---	15
16	---	---	0.011B	0.009	0	0	0	0	0	0	---	---	16
17	---	---	0.030B	0.008	0	0	0	0	0	0	---	---	17
18	---	---	0.068B	0.006	0	0	0	0	0	0	---	---	18
19	---	---	0.174B	0.004	0	0	0	0	0	0	---	---	19
20	---	---	0.150B	0.002	0	0	0	0	0	0	---	---	20
21	---	---	0.089B	0.001	0	0	0	0	0	0	---	---	21
22	---	---	0.068B	0	0	0	0	0	0	0	---	---	22
23	---	---	0.021B	0	0	0	0	0	0	0	---	---	23
24	---	---	0.011B	0	0	0	0	0	0	0	---	---	24
25	---	---	0.009B	0	0	0	0	0	0	0	---	---	25
26	---	OB	0.021B	0	0	0	0	0	0	0	---	---	26
27	---	OB	0.090B	0	0	0	0	0	0	0	---	---	27
28	---	OB	0.205B	0	0	0	0	0	0	0	---	---	28
29	---		0.300B	0	0	0	0	0	0	0	---	---	29
30	---		0.155B	0	0	0	0	0	0	0	---	---	30
31	---		0.115B		0		0	0		0A	---	---	31
										0E			
TOTAL	---	---	1.589	0.816	0	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.051	0.027	0	0	0	0	0	0	---	---	MEAN
MAX	---	---	0.300	0.101	0	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.010
MAXIMUM DAILY, 0.300B ON MAR 29
MINIMUM DAILY, OB ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 52 26 N
LONG 110 45 37 W
DRAINAGE AREA, 910 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	137	SEP	0
APR	70.5	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

MONITOR CREEK NEAR MONITOR - STATION NO. 05GA003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.700B	0.005	0	0	0	0	0	---	---	1
2	---	---	0 B	0.640	0.002	0	0	0	0	0	---	---	2
3	---	---	0 B	0.461	0.002	0	0	0	0	0	---	---	3
4	---	---	0 B	0.331	0.002	0	0	0	0	0	---	---	4
5	---	---	0 B	0.253	0.001	0	0	0	0	0	---	---	5
6	---	---	0 B	0.180	0.001	0	0	0	0	0	---	---	6
7	---	---	0 B	0.129	0.001	0	0	0	0	0	---	---	7
8	---	---	0 B	0.114	0	0	0	0	0	0	---	---	8
9	---	---	0 B	0.126	0	0	0	0	0	0	---	---	9
10	---	---	0.015B	0.126	0	0	0	0	0	0	---	---	10
11	---	---	0.350B	0.093	0	0	0	0	0	0	---	---	11
12	---	---	0.235B	0.061	0	0	0	0	0	0	---	---	12
13	---	---	0.118B	0.038	0	0	0	0	0	0	---	---	13
14	---	---	0.063B	0.021	0	0	0	0	0	0	---	---	14
15	---	---	0.061B	0.012	0	0	0	0	0	0	---	---	15
16	---	---	0.103B	0.020	0	0	0	0	0	0	---	---	16
17	---	---	0.192B	0.015	0	0	0	0	0	0	---	---	17
18	---	---	0.291B	0.020	0	0	0	0	0	0	---	---	18
19	---	---	0.493B	0.023	0	0	0	0	0	0	---	---	19
20	---	---	0.761B	0.023	0	0	0	0	0	0	---	---	20
21	---	---	0.694B	0.019	0	0	0	0	0	0	---	---	21
22	---	---	0.483B	0.006	0	0	0	0	0	0	---	---	22
23	---	---	0.368B	0.049	0	0	0	0	0	0	---	---	23
24	---	---	0.241B	0.040	0	0	0	0	0	0	---	---	24
25	---	---	0.199B	0.039	0	0	0	0	0	0	---	---	25
26	---	OB	0.287B	0.030	0	0	0	0	0	0	---	---	26
27	---	OB	0.333B	0.025	0	0	0	0	0	0	---	---	27
28	---	OB	0.480B	0.020	0	0	0	0	0	0	---	---	28
29	---		0.680B	0.015	0	0	0	0	0	0	---	---	29
30	---		1.05 B	0.010	0	0	0	0	0	0	---	---	30
31	---		0.880B		0		0	0		0		---	31
TOTAL	---	---	8.377	3.639	0.014	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.270	0.121	0.001	0	0	0	0	0	---	---	MEAN
MAX	---	---	1.05	0.700	0.005	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0.006	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.049
MAXIMUM DAILY, 1.05B ON MAR 30
MINIMUM DAILY, OB ON MAR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 58 10 N
LONG 110 34 30 W
DRAINAGE AREA, 1 440 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	724	SEP	0
APR	314	OCT	0
MAY	1.21	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 1 040 dam³

MONTAGNEUSE RIVER NEAR HINES CREEK - STATION NO. 07FD012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.700B	1.56	0.688	0.329	0.010	0	0	---	---	1
2	---	---	0 B	1.67 B	1.55	0.667	1.11	0.010	0	0	---	---	2
3	---	---	0 B	3.74 B	1.64	0.610	1.67	0.009	0	0	---	---	3
4	---	---	0 B	3.95 B	1.81	0.575	1.65	0.008	0.006	0	---	---	4
5	---	---	0 B	4.12 B	1.94	0.537	1.39	0.008	0.005	0	---	---	5
6	---	---	0 B	5.15 B	2.02	0.525	1.08	0.007	0.004	0	---	---	6
7	---	---	0 B	5.12 B	2.08	0.519	0.803	0.005	0.004	0	---	---	7
8	---	---	0 B	3.56 B	2.15	0.464	0.577	0.004	0.003	0	---	---	8
9	---	---	0 B	2.72 B	2.07	0.380	0.469	0.004	0.003	0	---	---	9
10	---	---	0 B	1.54 B	1.95	0.322	0.412	0.003	0.002	0	---	---	10
11	---	---	0 B	1.29 B	1.75	0.415	0.338	0.002	0.002	0	---	---	11
12	---	---	0 B	1.18	1.57	1.66	0.274	0.002	0.002	0	---	---	12
13	---	---	0 B	1.10	1.37	2.75	0.223	0.002	0.001	0	---	---	13
14	---	---	0 B	1.25	1.14	4.41	0.182	0.001	0.001	0	---	---	14
15	---	---	0 B	1.68	1.02	4.60	0.130	0.002	0.001	0	---	---	15
16	---	---	0 B	2.05	0.980	3.78	0.120	0.001	0.001	0	---	---	16
17	---	---	0 B	2.27	1.03	2.99	0.145	0.001	0.001	0	---	---	17
18	---	---	0 B	2.29	0.907	2.18	0.108	0.001	0.001	OB	---	---	18
19	---	---	0 B	2.38	0.875	1.55	0.078	0.001	0	OB	---	---	19
20	---	---	0 B	2.64	0.870	1.15	0.055	0.001	0	OB	---	---	20
21	---	---	0 B	2.85	0.849	0.871	0.043	0	0	OB	---	---	21
22	---	---	0 B	2.96	0.767	0.658	0.035	0.001	0	OB	---	---	22
23	---	---	0 B	3.17	0.697	0.514	0.030	0.001	0	OB	---	---	23
24	---	---	0 B	3.49	0.654	0.388	0.028	0.001	0	OB	---	---	24
25	---	---	0 B	3.55	0.695	0.295	0.027	0.001	0	OB	---	---	25
26	---	---	0 B	3.39	0.884	0.258	0.024	0.001	0	OB	---	---	26
27	---	---	0.001B	2.93	0.968	0.218	0.020	0	0	OB	---	---	27
28	---	OB	0.005B	2.51	0.930	0.213	0.017	0	0	OB	---	---	28
29	---		0.149B	2.07	0.863	0.186	0.014	0	0	OB	---	---	29
30	---		0.270B	1.76	0.767	0.176	0.012	0	0	OB	---	---	30
31	---		0.395B		0.712		0.010	0		OB		---	31
TOTAL	---	---	0.820	79.080	39.048	34.549	11.403	0.087	0.037	0	---	---	TOTAL
MEAN	---	---	0.027	2.64	1.26	1.15	0.368	0.003	0.001	0	---	---	MEAN
MAX	---	---	0.395	5.15	2.15	4.60	1.67	0.010	0.006	0	---	---	MAX
MIN	---	---	0	0.700	0.654	0.176	0.010	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.674
MAXIMUM DAILY, 5.15B ON APR 06
MINIMUM DAILY, OB ON MAR 01
MAXIMUM INSTANTANEOUS,
5.80B AT 00:00 MST ON APR 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 23 00 N
LONG 118 42 40 W
DRAINAGE AREA, 230 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	985
FEB	---	AUG	7.52
MAR	70.8	SEP	3.20
APR	6 830	OCT	0
MAY	3 370	NOV	---
JUN	2 990	DEC	---

TOTAL DISCHARGE, 14 300 dam³

MOORE LAKE NEAR COLD LAKE - STATION NO. 06AC002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	549.434	549.448	549.504	549.524	549.468	549.485	549.429	549.361	549.324	---	1
2	---	---	549.434	549.451	549.507	549.522	549.461	549.479	549.433	549.360	---	---	2
3	---	---	549.434	549.450	549.512	549.519	549.507	549.474	549.428	549.365	---	---	3
4	---	---	549.435	549.451	549.515	549.513	549.521	549.470	549.425	549.358	---	---	4
5	---	---	549.435	549.451	549.516	549.513	549.516	549.468	549.420	549.356	---	---	5
6	---	---	549.435	549.451	549.515	549.507	549.511	549.468	549.423	549.356	---	---	6
7	---	---	549.436	549.452	549.528	549.507	549.513	549.464	549.418	549.358	---	---	7
8	---	---	549.437	549.453	549.531	549.508	549.508	549.455	549.419	549.358	---	---	8
9	---	---	549.434	549.450	549.531	549.508	549.516	549.445	549.416	549.357	---	---	9
10	---	---	549.434	549.451	549.527	549.506	549.531	549.449	549.415	549.353	---	---	10
11	---	---	549.434	549.453	549.532	549.515	549.531	549.456	549.408	549.347	---	---	11
12	---	---	549.441	549.452	549.535	549.511	549.529	549.456	549.417	549.341	---	---	12
13	---	---	549.441	549.455	549.531	549.507	549.521	549.458	549.417	549.343	---	---	13
14	---	---	549.444	549.457	549.531	549.511	549.507	549.458	549.417	549.342	---	---	14
15	---	---	549.443	549.455	549.534	549.510	549.504	549.452	549.413	549.342	---	---	15
16	---	---	549.443	549.457	549.537	549.505	549.503	549.450	549.406	549.340	---	---	16
17	---	---	549.443	549.461	549.539	549.501	549.498	549.451	549.401	549.339	---	---	17
18	---	---	549.444	549.461	549.541	549.499	549.496	549.449	549.401	549.334	---	---	18
19	---	---	549.445	549.463	549.538	549.495	549.495	549.449	549.398	549.334	---	---	19
20	---	---	549.445	549.466	549.541	549.491	549.492	549.445	549.402	549.333	---	---	20
21	---	---	549.443	549.471	549.539	549.490	549.487	549.446	549.399	549.328	---	---	21
22	---	---	549.443	549.479	549.540	549.488	549.489	549.440	549.397	549.327	---	---	22
23	---	---	549.445	549.481	549.540	549.486	549.492	549.444	549.397	549.329	---	---	23
24	---	---	549.447	549.486	549.540	549.480	549.487	549.433	549.395	549.327	---	---	24
25	---	---	549.448	549.495	549.543	549.477	549.491	549.435	549.392	549.326	---	---	25
26	---	---	549.446	549.498	549.542	549.475	549.490	549.434	549.391	549.328	---	---	26
27	---	---	549.448	549.502	549.540	549.478	549.492	549.431	549.385	549.316	---	---	27
28	---	---	549.449	549.503	549.538	549.475	549.494	549.424	549.384	549.321	---	---	28
29	---		549.450	549.500	549.534	549.473	549.491	549.422	549.379	549.324	---	---	29
30	---		549.450	549.502	549.531	549.471	549.489	549.416	549.371	549.318	---	---	30
31	---		549.451		549.531		549.489	549.429		549.323		---	31
MEAN	---	---	549.440	549.467	549.531	549.499	549.501	549.450	549.407	549.340	---	---	MEAN
MAX	---	---	549.451	549.503	549.543	549.524	549.531	549.485	549.433	549.365	---	---	MAX
MIN	---	---	549.434	549.448	549.504	549.471	549.461	549.416	549.371	549.316	---	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MAXIMUM DAILY, 549.543 ON MAY 25

MAXIMUM INSTANTANEOUS,
549.547 AT 23:10 MST ON MAY 24

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 30 00 N
LONG 110 34 00 W

A - MANUAL GAUGE
E - ESTIMATED

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

DRAINAGE AREA,
42.2 km²

MOOSEHILLS CREEK NEAR ELK POINT - STATION NO. 05ED003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.001B	0.718B	0.078E	0.010	0.007	0.003	0	0	---	---	1
2	---	---	0.001B	0.624B	0.052E	0.009	0.008	0.009	0	0	---	---	2
3	---	---	0.001B	0.739B	0.040E	0.012	0.049	0.014	0	0	---	---	3
4	---	---	0.001B	0.716B	0.032E	0.008	0.171	0.023	0	0	---	---	4
5	---	---	0.001B	0.478B	0.030E	0.009	0.151	0.025	0	0	---	---	5
6	---	---	0.001B	0.340B	0.030A	0.005	0.101	0.022	0	0	---	---	6
7	---	---	0.001B	0.221B	0.057	0.005	0.059	0.015	0	0	---	---	7
8	---	---	0.001B	0.176B	0.094	0.001	0.065	0.007	0	0	---	---	8
9	---	---	0.001B	0.117B	0.122	0.001	0.055	0	0	0	---	---	9
10	---	---	0.001B	0.093B	0.111	0.002	0.040	0	0	0	---	---	10
11	---	---	0.001B	0.079	0.100	0.006	0.036	0	0	0	---	---	11
12	---	---	0.001B	0.073	0.076	0.009	0.040	0	0	0	---	---	12
13	---	---	0.001B	0.078	0.070	0.005	0.037	0	0	0	---	---	13
14	---	---	0.001B	0.064A	0.092	0.011	0.035	0	0	0	---	---	14
15	---	---	0.001B	0.060E	0.101	0.019	0.034	0	0	0	---	---	15
16	---	---	0.001B	0.064A	0.105	0.015	0.035	0	0	0	---	---	16
17	---	---	0.001B	0.072	0.087	0.007	0.038	0	0	0	---	---	17
18	---	---	0.001B	0.089	0.073	0.009	0.028	0	0	0	---	---	18
19	---	---	0.001B	0.132	0.082	0.009	0.024	0	0	0	---	---	19
20	---	---	0.001B	0.177	0.205	0.007	0.019	0	0	0	---	---	20
21	---	---	0.001B	0.217	0.075	0.004	0.016	0.002	0	0	---	---	21
22	---	---	0.001B	0.183	0.056	0.001	0.013	0.008	0	0	---	---	22
23	---	---	0.001B	0.136	0.265	0.001	0.012	0.011	0	0	---	---	23
24	---	---	0.001B	0.110	0.059	0.007	0.010	0.006	0	0	---	---	24
25	---	---	0.002B	0.229	0.027	0.012	0.008	0	0	0	---	---	25
26	---	---	0.002B	0.340	0.008	0.011	0.008	0	0	0	---	---	26
27	---	---	0.002B	0.241	0.001	0.010	0.007	0	0	0	---	---	27
28	---	---	0.002B	0.185	0.011	0.010	0.003	0	0	0	---	---	28
29	---	---	0.003B	0.141A	0.017	0.011	0.001	0	0	0	---	---	29
30	---		0.067B	0.102E	0.018	0.010	0.003	0	0	0	---	---	30
31	---		0.342B		0.016		0.002	0		0	---	---	31
TOTAL	---	---	0.444	6.994	2.190	0.236	1.115	0.145	0	0	---	---	TOTAL
MEAN	---	---	0.014	0.233	0.071	0.008	0.036	0.005	0	0	---	---	MEAN
MAX	---	---	0.342	0.739	0.265	0.019	0.171	0.025	0	0	---	---	MAX
MIN	---	---	0.001	0.060	0.001	0.001	0.001	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.045
MAXIMUM DAILY, 0.739B ON APR 03
MINIMUM DAILY, 0 ON AUG 09
MAXIMUM INSTANTANEOUS,
1.11B AT 08:29 MST ON APR 03

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 56 03 N
LONG 110 46 36 W
DRAINAGE AREA, 36.5 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	96.1
FEB	---	AUG	12.5
MAR	38.4	SEP	0
APR	604	OCT	0
MAY	189	NOV	---
JUN	20.4	DEC	---

TOTAL DISCHARGE, 961 dam³

MOOSELAKE RIVER NEAR FRANCHERE - STATION NO. 06AC006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	OB	OB	0	0	0	0	0	0	OB	---	1
2	---	---	OB	OB	0	0	0	0	0	0	---	---	2
3	---	---	OB	OB	0	0	0	0	0	0	---	---	3
4	---	---	OB	OB	0	0	0	0	0	0	---	---	4
5	---	---	OB	OB	0	0	0	0	0	0	---	---	5
6	---	---	OB	OB	0	0	0	0	0	0	---	---	6
7	---	---	OB	OB	0	0	0	0	0	0	---	---	7
8	---	---	OB	OB	0	0	0	0	0	0	---	---	8
9	---	---	OB	OB	0	0	0	0	0	0	---	---	9
10	---	---	OB	OB	0	0	0	0	0	0	---	---	10
11	---	---	OB	OB	0	0	0	0	0	0	---	---	11
12	---	---	OB	OB	0	0	0	0	0	0	---	---	12
13	---	---	OB	OB	0	0	0	0	0	0	---	---	13
14	---	---	OB	OB	0	0	0	0	0	0	---	---	14
15	---	---	OB	OB	0	0	0	0	0	0	---	---	15
16	---	---	OB	OB	0	0	0	0	0	0	---	---	16
17	---	---	OB	0	0	0	0	0	0	0	---	---	17
18	---	---	OB	0	0	0	0	0	0	0	---	---	18
19	---	---	OB	0	0	0	0	0	0	0	---	---	19
20	---	---	OB	0	0	0	0	0	0	0	---	---	20
21	---	---	OB	0	0	0	0	0	0	0	---	---	21
22	---	---	OB	0	0	0	0	0	0	0	---	---	22
23	---	---	OB	0	0	0	0	0	0	0	---	---	23
24	---	---	OB	0	0	0	0	0	0	0	---	---	24
25	---	---	OB	0	0	0	0	0	0	0	---	---	25
26	---	---	OB	0	0	0	0	0	0	0	---	---	26
27	---	---	OB	0	0	0	0	0	0	0	---	---	27
28	---	---	OB	0	0	0	0	0	0	OB	---	---	28
29	---	---	OB	0	0	0	0	0	0	OB	---	---	29
30	---		OB	0	0	0	0	0	0	OB	---	---	30
31	---		OB		0		0	0		OB		---	31
TOTAL	---	---	0	0	0	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0	0	0	0	0	0	0	0	---	---	MEAN
MAX	---	---	0	0	0	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0
MAXIMUM DAILY, OB ON MAR 01
MINIMUM DAILY, OB ON MAR 01
MAXIMUM INSTANTANEOUS, 0.000 ON APR

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 19 26 N
LONG 110 57 46 W
DRAINAGE AREA, 1 010 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	0	SEP	0
APR	0	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 0 dam³

REMARKS - ZERO FLOWS FOR THE SEASON. PEAK GAUGE HEIGHT WAS 0.844 M AT 1445 JUNE 1, 1990.

MOSQUITO CREEK NEAR THE MOUTH - STATION NO. 05AC031

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.452B	0.044	0.054	1.80	0.921	1.12	0.277	0.178	---	---	1
2	---	---	0.361B	0.054	0.045	1.43	1.14	0.930	0.328	0.144	---	---	2
3	---	---	0.270B	0.063	0.051	1.28	1.13	1.17	0.416	0.121	---	---	3
4	---	---	0.126B	0.076	0.050	1.37	1.14	0.855	0.402	0.145	---	---	4
5	---	---	0.073B	0.075	0.029	2.34	1.13	0.519	0.440	0.167	---	---	5
6	---	---	0.033B	0.065	0.028	2.01	1.06	0.428	0.402	0.172	---	---	6
7	---	---	0.011B	0.060	0.485	1.57	1.08	0.309	0.421	0.172	---	---	7
8	---	---	0.029B	0.060	0.540	1.16	1.38	0.258	0.389	0.168	---	---	8
9	---	---	0.034B	0.059B	0.534	1.04	1.26	0.275	0.393	0.162	---	---	9
10	---	---	0.050B	0.057B	0.520	0.980	1.43	0.309	0.352	0.160	---	---	10
11	---	---	0.054B	0.054B	0.522	0.908	1.44	0.510	0.361	0.160	---	---	11
12	---	---	0.028B	0.052	0.520	0.818	1.28	0.539	0.363	0.157	---	---	12
13	---	0 B	0.032B	0.048	0.532	0.856	1.07	0.478	0.357	0.155	---	---	13
14	---	0 B	0.080B	0.041	0.524	0.904	0.919	0.352	0.407	0.150	---	---	14
15	---	0 B	0.089B	0.036	0.527	0.934	0.911	0.240	0.417	0.145	---	---	15
16	---	0 B	0.129B	0.031	0.535	0.929	0.935	0.181	0.395	0.142	---	---	16
17	---	0 B	0.091B	0.026	0.557	0.870	0.896	0.161	0.317	0.146	---	---	17
18	---	0 B	0.107B	0.021	0.596	0.922	1.26	0.174	0.198	0.138	---	---	18
19	---	0 B	0.087B	0.019	0.625	0.855	1.64	0.212	0.148	0.117	---	---	19
20	---	0 B	0.075B	0.019	0.627	0.669	1.49	0.197	0.140	0.097	---	---	20
21	---	0 B	0.065B	0.019	0.614	0.615	1.40	0.261	0.143	0.089	---	---	21
22	---	0 B	0.055B	0.019	0.574	0.617	1.39	0.368	0.168	0.079	---	---	22
23	---	0.250B	0.047B	0.019	0.556	0.570	1.32	0.427	0.217	0.068	---	---	23
24	---	0.390B	0.056B	0.019	0.575	0.717	1.26	0.421	0.230	0.048	---	---	24
25	---	0.545B	0.049B	0.019	0.772	0.833	1.28	0.365	0.256	0.028	---	---	25
26	---	0.640B	0.060B	0.019	0.838	0.830	1.39	0.390	0.249	0.018	---	---	26
27	---	0.714B	0.032B	0.027	0.751	0.965	1.35	0.309	0.227	0.014	---	---	27
28	---	0.822B	0.016B	0.042	1.42	0.977	1.31	0.294	0.183	0.014	---	---	28
29	---		0.016	0.053	1.61	0.850	1.32	0.260	0.351	0.014	---	---	29
30	---		0.018	0.063	1.53	0.822	1.21	0.297	0.234	0.020	---	---	30
31	---		0.031		1.49		1.26	0.283		0.024A		---	31
TOTAL	---	---	2.656	1.259	18.631	31.441	38.102	12.892	9.181	3.412	---	---	TOTAL
MEAN	---	---	0.086	0.042	0.601	1.05	1.23	0.416	0.306	0.110	---	---	MEAN
MAX	---	---	0.452	0.076	1.61	2.34	1.64	1.17	0.440	0.178	---	---	MAX
MIN	---	---	0.011	0.019	0.028	0.570	0.896	0.161	0.140	0.014	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.480
MAXIMUM DAILY, 2.34 ON JUN 05
MINIMUM DAILY, 0.011B ON MAR 07
MAXIMUM INSTANTANEOUS, 2.65 AT 05:31 MST ON JUN 05

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 15 20 N
LONG 113 33 15 W
DRAINAGE AREA, 838 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 290
FEB	---	AUG	1 110
MAR	229	SEP	793
APR	109	OCT	295
MAY	1 610	NOV	---
JUN	2 720	DEC	---

TOTAL DISCHARGE, 10 200 dam³

MOUNTAIN VIEW IRRIGATION DISTRICT CANAL - STATION NO. 05AD017

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.068	0.173	0.142	1.42	1.82	1.41	0.943	0.006E	---	1
2	---	---	---	0.094	0.196	0.175	1.40	2.46	1.41	0.949	0.006E	---	2
3	---	---	---	0.106	0.123	0.142	1.40	2.48	1.41	0.908	0.006E	---	3
4	---	---	---	0.079B	0.127	0.124	1.38	2.45	1.39	0.865	0.005E	---	4
5	---	---	---	0.068	0.147	0.113	1.32	2.44	1.39	0.865	0.005E	---	5
6	---	---	---	0.072	0.119	0.113	1.29	2.43	1.38	0.846	0.005E	---	6
7	---	---	---	0.073	0.114	0.120	0.806	2.41	1.37	0.822	0.004E	---	7
8	---	---	---	0.064B	0.136	0.114	0.502	2.41	1.37	2.10	0.004E	---	8
9	---	---	---	0.056B	0.165	0.112	0.575	2.42	1.36	2.80	0.004E	---	9
10	---	---	---	0.056B	0.185	0.118	0.558	2.42	1.30	2.28	0.003E	---	10
11	---	---	---	0.062A	0.152	0.135	0.549	2.42	1.61	1.19	0.003E	---	11
12	---	---	---	0.065	0.193	0.120	1.04	2.42	2.48	1.15	0.003E	---	12
13	---	---	---	0.081	0.188	0.168	1.40	2.42	2.50	1.14	0.002E	---	13
14	---	---	---	0.112	0.200	0.160	1.41	2.42	2.51	1.13	0.002E	---	14
15	---	---	0.030B	0.106	0.250	0.117	1.40	2.42	2.49	0.524	0.002E	---	15
16	---	---	---	0.090	0.203	0.103	1.73	2.42	2.48	0.007E	0.001E	---	16
17	---	---	---	0.090	0.144	0.099	1.96	2.43	2.46	0.007E	0.001E	---	17
18	---	---	---	0.090	0.122	0.090	1.95	2.45	2.45	0.007E	0.001E	---	18
19	---	---	---	0.086	0.133	0.085	1.94	2.45	2.45	0.007E	0 E	---	19
20	---	---	---	0.090	0.127	0.090	1.92	2.49	2.44	0.007E	0 E	---	20
21	---	---	---	0.090	0.108	0.095	1.88	2.47	2.42	0.007E	0 E	---	21
22	---	---	---	0.091	0.133	0.072	1.86	2.46	1.89	0.007E	0 E	---	22
23	---	---	---	0.089	0.093	0.366	1.85	2.46	1.62	0.007E	0 E	---	23
24	---	---	---	0.091	0.197	0.543	1.86	2.10	1.60	0.007E	0 E	---	24
25	---	---	---	0.092	0.225	0.562	1.81	1.48	1.57	0.007E	0 E	---	25
26	---	---	---	0.105	0.132	0.520	1.29	1.47	1.26	0.007E	0 E	---	26
27	---	---	---	0.128	0.094	0.509	1.24	1.46	1.01	0.007E	0 E	---	27
28	---	---	---	0.159	0.115	0.929	1.22	1.45	1.00	0.007E	0 E	---	28
29	---	---	0 A	0.138	0.541	1.39	1.20	1.44	0.973	0.007E	0 E	---	29
30	---		0.049	0.428	0.162	1.38	1.18	1.43	0.946	0.007A	0 E	---	30
31	---		0.060		0.115		1.17	1.43		0.007E		---	31
TOTAL	---	---	---	3.019	5.117	8.806	42.590	67.73	51.949	18.624	0.063	---	TOTAL
MEAN	---	---	---	0.101	0.165	0.294	1.37	2.18	1.73	0.601	0.002	---	MEAN
MAX	---	---	---	0.428	0.541	1.39	1.96	2.49	2.51	2.80	0.006	---	MAX
MIN	---	---	---	0.056	0.093	0.072	0.549	1.43	0.946	0.007	0	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.811
MAXIMUM DAILY, 2.80 ON OCT 09
MINIMUM DAILY, 0E ON NOV 19

SUMMARY FOR THE MONTHS APR TO NOV

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 06 00 N
LONG 113 41 30 W

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 680
FEB	---	AUG	5 850
MAR	---	SEP	4 490
APR	261	OCT	1 610
MAY	442	NOV	5.44
JUN	761	DEC	---

TOTAL DISCHARGE, 17 100 dam³

MUD LAKE DIVERSION CANAL - STATION NO. 05BF013

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.198E	5.41	5.47	2.78	0.963	0.340	---	---	1
2	---	---	---	---	0.198E	4.30	4.13	2.46	0.878	0.368	---	---	2
3	---	---	---	---	0.198E	3.34	4.70	1.95	0.906	0.340	---	---	3
4	---	---	---	---	0.198E	3.31	3.54	1.76	0.878	0.396	---	---	4
5	---	---	---	---	0.227E	2.92	2.97	1.87	0.850	0.934	---	---	5
6	---	---	---	---	0.396	2.29	3.26	2.15	0.595	0.708	---	---	6
7	---	---	---	---	0.481	1.98	3.85	2.35	0.510	0.510	---	---	7
8	---	---	---	---	0.481	1.81	3.91	2.07	0.510	0.425	---	---	8
9	---	---	---	---	0.396	1.73	3.68	1.90	0.481	0.396	---	---	9
10	---	---	---	---	0.368	2.44	3.71	1.93	0.481	0.396	---	---	10
11	---	---	---	---	0.340	4.62	3.57	1.95	0.510	0.368	---	---	11
12	---	---	---	---	0.311	3.54	3.79	1.95	0.538	0.340	---	---	12
13	---	---	---	---	0.311	2.56	4.36	2.10	0.510	0.311	---	---	13
14	---	---	---	---	0.311	1.98	3.99	2.21	0.425	0.311	---	---	14
15	---	---	---	---	0.283	1.90	3.17	2.24	0.481	0.283	---	---	15
16	---	---	---	---	0.283	2.29	2.86	2.04	0.481	0.311	---	---	16
17	---	---	---	---	0.311	3.11	2.55	1.76	0.736	0.283	---	---	17
18	---	---	---	---	0.340	3.82	2.07	1.64	0.595	0.283	---	---	18
19	---	---	---	---	0.340	3.74	1.95	1.70	0.538	0.255	---	---	19
20	---	---	---	---	0.368	3.88	1.73	1.61	0.510	0.255	---	---	20
21	---	---	---	---	0.453	4.08	1.56	1.64	0.481	0.255	---	---	21
22	---	---	---	---	0.481	4.50	1.70	1.73	0.453	0.255	---	---	22
23	---	---	---	---	0.595	6.12	1.93	1.81	0.453	0.227	---	---	23
24	---	---	---	---	0.963	6.82	2.24	1.39	0.510	0.227	---	---	24
25	---	---	---	---	2.15	7.36	2.80	1.05	0.595	0.227	---	---	25
26	---	---	---	---	4.84	6.51	3.43	0.934	0.595	0.255	---	---	26
27	---	---	---	---	4.36	5.89	3.09	0.793	0.595	0.255	---	---	27
28	---	---	---	---	4.11	4.90	3.00	0.736	0.510	0.255	---	---	28
29	---	---	---	---	4.62	3.99	2.61	0.765	0.425	0.255	---	---	29
30	---		---	---	6.99	4.62	2.55	1.25	0.396	0.227	---	---	30
31	---		---		6.57		2.61	1.25		0.227		---	31
TOTAL	---	---	---	---	42.471	115.72	96.78	53.768	17.389	10.478	---	---	TOTAL
MEAN	---	---	---	---	1.37	3.86	3.12	1.73	0.580	0.338	---	---	MEAN
MAX	---	---	---	---	6.99	7.36	5.47	2.78	0.963	0.934	---	---	MAX
MIN	---	---	---	---	0.198	1.73	1.56	0.736	0.396	0.227	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.83
MAXIMUM DAILY, 7.36 ON JUN 25
MINIMUM DAILY, 0.198E ON MAY 01

DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 47 30 N
LONG 115 18 00 W

E - ESTIMATED
REGULATED SINCE 1949

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	8 360
FEB	---	AUG	4 650
MAR	---	SEP	1 500
APR	---	OCT	905
MAY	3 670	NOV	---
JUN	10 000	DEC	---

TOTAL DISCHARGE, 29 100 dam³

MURIEL LAKE AT GURNEYVILLE - STATION NO. 06AC007

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	558.711	558.719	558.733	558.749	558.847	558.856	558.767	558.760	558.716	558.637	558.598	558.607	1
2	558.711	558.721	558.732	558.752	558.849	558.848	558.767	558.751	558.714	558.620	558.594	558.609	2
3	558.711	558.722	558.733	558.755	558.850	558.838	558.812	558.747	558.705	558.617	558.599	558.609	3
4	558.711	558.724	558.732	558.760	558.852	558.836	558.799	558.743	558.702	558.618	558.589	558.611	4
5	558.714	558.725	558.732	558.770	558.853	558.832	558.795	558.743	558.702	558.619	558.585	558.612	5
6	558.715	558.726	558.731	558.777	558.844	558.831	558.798	558.741	558.702	558.617	558.591	558.615	6
7	558.717	558.727	558.726	558.782	558.862	558.828	558.798	558.732	558.695	558.618	558.592	558.615	7
8	558.720	558.725	558.726	558.786	558.860	558.827	558.797	558.725	558.696	558.613	558.586	558.615	8
9	558.720	558.725	558.727	558.791	558.860	558.833	558.799	558.723	558.689	558.613	558.588	558.615	9
10	558.719	558.727	558.731	558.795	558.858	558.833	558.831	558.721	558.686	558.608	558.589	558.615	10
11	558.717	558.727	558.732	558.797	558.860	558.834	558.825	558.722	558.689	558.608	558.590	558.615	11
12	558.718	558.730	558.742	558.799	558.860	558.831	558.820	558.721	558.698	558.609	558.587	558.617	12
13	558.715	558.732	558.744	558.801	558.860	558.824	558.809	558.717	558.696	558.604	558.588	558.619	13
14	558.719	558.733	558.747	558.803	558.862	558.817	558.792	558.712	558.696	558.605	558.592	558.619	14
15	558.721	558.733	558.748	558.803	558.863	558.805	558.792	558.710	558.697	558.604	558.592	558.618	15
16	558.727	558.734	558.750	558.805	558.870	558.804	558.793	558.724	558.693	558.606	558.592	558.619	16
17	558.726	558.734	558.748	558.807	558.871	558.802	558.789	558.729	558.673	558.604	558.591	558.616	17
18	558.725	558.734	558.752	558.809	558.871	558.800	558.786	558.723	558.678	558.604	558.593	558.607	18
19	558.723	558.734	558.752	558.810	558.873	558.795	558.787	558.716	558.675	558.595	558.593	558.609	19
20	558.723	558.733	558.752	558.814	558.866	558.794	558.782	558.712	558.670	558.597	558.592	558.610	20
21	558.723	558.733	558.754	558.815	558.867	558.791	558.779	558.713	558.667	558.599	558.597	558.609	21
22	558.724	558.735	558.754	558.818	558.868	558.788	558.778	558.706	558.665	558.591	558.600	558.608	22
23	558.724	558.733	558.756	558.820	558.868	558.785	558.778	558.695	558.665	558.595	558.600	558.607	23
24	558.724	558.731	558.756	558.824	558.867	558.780	558.781	558.690	558.658	558.597	558.608	558.604	24
25	558.724	558.734	558.755	558.831	558.866	558.777	558.776	558.688	558.656	558.597	558.607	558.607	25
26	558.722	558.734	558.755	558.834	558.863	558.778	558.774	558.686	558.651	558.594	558.608	558.607	26
27	558.722	558.734	558.754	558.838	558.861	558.773	558.772	558.680	558.649	558.603	558.608	558.607	27
28	558.721	558.735	558.753	558.838	558.861	558.770	558.770	558.676	558.647	558.596	558.607	558.598	28
29	558.721		558.748	558.842	558.861	558.767	558.770	558.675	558.640	558.599	558.610	558.591	29
30	558.720		558.744	558.846	558.859	558.767	558.767	558.686	558.632	558.602	558.607	558.590	30
31	558.719		558.749		558.856		558.767	558.716		558.602		558.588	31
MEAN	558.719	558.730	558.743	558.802	558.861	558.808	558.789	558.716	558.680	558.606	558.596	558.609	MEAN
MAX	558.727	558.735	558.756	558.846	558.873	558.856	558.831	558.760	558.716	558.637	558.610	558.619	MAX
MIN	558.711	558.719	558.726	558.749	558.844	558.767	558.767	558.675	558.632	558.591	558.585	558.588	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 558.722
MAXIMUM DAILY, 558.873 ON MAY 19
MINIMUM DAILY, 558.585 ON NOV 05
MAXIMUM INSTANTANEOUS,
558.875 AT 07:45 MST ON MAY 19

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 08 15 N
LONG 110 45 05 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA,
464 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

MUSKEG CREEK NEAR WESTEROSE - STATION NO. 05FA912

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	3.08 B	0.473	0.418	0.348	---	---	---	---	---	1
2	---	---	---	3.07 B	0.425	0.270	0.393	0.099A	---	---	---	---	2
3	---	---	---	1.84 B	0.372	0.193	39.6 ---	---	---	---	---	---	3
4	---	---	---	1.32 B	0.353	0.147	16.1 E	---	0.102A	---	---	---	4
5	---	---	---	0.527B	0.331	0.308	---	---	---	---	---	---	5
6	---	---	---	0.396	0.309	0.567	---	---	---	---	---	---	6
7	---	---	---	0.327	0.290	0.355	---	---	---	---	---	---	7
8	---	---	---	0.252	0.364	0.230	---	---	---	---	---	---	8
9	---	---	---	0.200	0.514	0.183	---	---	---	0.116A	---	---	9
10	---	---	---	0.185	0.491	0.151	---	0.087A	---	---	---	---	10
11	---	---	---	0.185	0.405	0.696	0.486A	---	---	---	---	---	11
12	---	---	---	0.203	0.310	3.34	---	---	---	---	---	---	12
13	---	---	---	0.244	0.270	7.53	---	---	---	---	---	---	13
14	---	---	---	0.311	0.249	4.30	---	---	0.077A	---	---	---	14
15	---	---	---	0.347	0.275	1.95	---	---	---	---	---	---	15
16	---	---	0.160B	0.347	0.219	0.917	---	---	---	---	---	---	16
17	---	---	---	0.272	0.215	0.745	---	0.098A	---	---	---	---	17
18	---	---	---	0.279	0.189	0.454	---	---	---	0.100A	---	---	18
19	---	---	---	0.348	0.267	0.394	---	---	---	---	---	---	19
20	---	---	---	0.318	0.185	0.354	0.180A	---	0.058A	---	---	---	20
21	---	---	---	0.351	0.195	0.305	---	---	---	---	---	---	21
22	---	---	---	0.335	0.378	0.299	---	---	---	---	---	---	22
23	---	---	---	0.393	0.452	0.309	---	---	---	---	---	---	23
24	---	---	---	1.05	1.10	0.262	---	---	---	---	---	---	24
25	---	---	---	1.34	1.23	0.263	---	---	---	---	---	---	25
26	---	---	---	1.01	1.18	0.296	---	---	---	---	---	---	26
27	---	---	---	0.655	0.670	0.323	0.379A	0.148A	0.051A	---	---	---	27
28	---	---	---	0.474	0.380	0.497	---	---	---	---	---	---	28
29	---	---	2.69 B	0.460	0.253	0.400	---	---	---	0.090A	---	---	29
30	---		3.09 B	0.451	0.315	0.357	---	---	---	---	---	---	30
31	---		4.12 B		0.490		---	---		---		---	31
TOTAL	---	---	---	20.570	13.149	26.613	---	---	---	---	---	---	TOTAL
MEAN	---	---	---	0.686	0.424	0.887	---	---	---	---	---	---	MEAN
MAX	---	---	---	3.08	1.23	7.53	---	---	---	---	---	---	MAX
MIN	---	---	---	0.185	0.185	0.147	---	---	---	---	---	---	MIN

SUMMARY FOR THE MONTHS APR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MINIMUM DAILY, 0.051A ON SEP 27
MAXIMUM INSTANTANEOUS,
87.8 AT 12:57 MST ON JUL 03

DATA CONTRIBUTED BY -
ALBERTA DEPARTMENT OF THE ENVIRONMENT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 52 06 N
LONG 113 57 27 W
DRAINAGE AREA, 91.7 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	---	SEP	---
APR	1 780	OCT	---
MAY	1 140	NOV	---
JUN	2 300	DEC	---

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARKS.

MUSKEG RIVER NEAR FORT MACKAY - STATION NO. 07DA008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.376B	1.23 B	30.2	13.8	4.84	0.751	0.301	0.303	---	---	1
2	---	---	0.301B	0.987B	37.1	13.4	6.12	0.691	0.335	0.258	---	---	2
3	---	---	0.323B	1.64 B	41.4	12.7	6.52	0.666	0.298	0.515	---	---	3
4	---	---	0.356B	2.22 B	43.4	11.6	6.19	0.759	0.279	0.611	---	---	4
5	---	---	0.407B	1.76 B	44.4	10.6	5.77	0.648	0.252	0.613	---	---	5
6	---	---	0.445B	1.35 B	44.5	10.1	5.40	0.569	0.224	0.590	---	---	6
7	---	---	0.479B	1.92 B	48.6	9.90	5.37	0.484	0.202	0.510	---	---	7
8	---	---	0.544B	2.01 B	53.3	9.81	5.09	0.398	0.194	0.488	---	---	8
9	---	---	0.636B	1.61 B	54.8	9.11	4.67	0.377	0.192	0.464	---	---	9
10	---	---	0.711B	0.960B	54.4	8.69	4.33	0.381	0.190	0.472	---	---	10
11	---	---	0.766B	0.601B	53.1	9.07	4.06	0.333	0.170	0.474	---	---	11
12	---	---	0.634B	0.470B	50.6	13.3	3.67	0.332	0.189	0.483	---	---	12
13	---	---	0.406B	0.479B	47.4	16.6	3.33	0.355	0.217	0.509	---	---	13
14	---	---	0.379B	0.529B	43.6	17.9	2.92	0.351	0.246	0.541	---	---	14
15	---	---	0.375B	0.579B	40.2	18.3	2.66	0.323	0.255	0.570B	---	---	15
16	---	---	0.350B	0.607B	37.0	17.8	2.46	0.309	0.250	0.563B	---	---	16
17	---	---	0.292B	0.739B	34.2	16.9	2.22	0.296	0.198	0.548B	---	---	17
18	---	---	0.296B	1.67 B	31.5	16.1	2.05	0.293	0.195	0.537B	---	---	18
19	---	---	0.399B	4.41 B	29.0	15.4	2.01	0.274	0.277	0.527B	---	---	19
20	---	---	0.347B	7.74	26.9	14.7	1.94	0.248	0.181	0.521B	---	---	20
21	---	---	0.287B	10.6	25.4	14.2	1.90	0.231	0.180	0.521B	---	---	21
22	---	---	0.216B	12.9	24.2	13.5	1.73	0.244	0.244	0.538B	---	---	22
23	---	---	0.170B	14.6	23.0	12.4	1.59	0.316	0.223	0.547B	---	---	23
24	---	---	0.216B	16.2	21.8	10.9	1.44	0.434	0.220	0.545B	---	---	24
25	---	---	0.298B	18.5	20.8	9.23	1.44	0.444	0.228	0.544B	---	---	25
26	---	---	0.317B	20.6 B	19.8	7.76	1.66	0.393	0.220	0.546B	---	---	26
27	---	---	0.311B	20.7 B	19.0	6.64	1.27	0.331	0.214	0.540B	---	---	27
28	---	---	0.349B	21.3	17.7	5.89	1.03	0.317	0.209	0.530B	---	---	28
29	---	---	0.560B	22.3	16.6	5.21	0.954	0.314	0.201	0.520B	---	---	29
30	---	---	0.918B	25.1	15.2	4.67	0.921	0.285	0.210	0.510B	---	---	30
31	---	---	1.27 B		14.1		0.814	0.277		0.500B	---	---	31
TOTAL	---	---	13.734	216.311	1 063.2	356.38	96.369	12.424	6.794	15.938	---	---	TOTAL
MEAN	---	---	0.443	7.21	34.3	11.9	3.11	0.401	0.227	0.514	---	---	MEAN
MAX	---	---	1.27	25.1	54.8	18.3	6.52	0.759	0.335	0.613	---	---	MAX
MIN	---	---	0.170	0.470	14.1	4.67	0.814	0.231	0.170	0.258	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 7.27
MAXIMUM DAILY, 54.8 ON MAY 09
MINIMUM DAILY, 0.170B ON MAR 23
MAXIMUM INSTANTANEOUS,
55.1 AT 18:20 MST ON MAY 09

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 11 30 N
LONG 111 34 05 W
DRAINAGE AREA, 1 460 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	8 330
FEB	---	AUG	1 070
MAR	1 190	SEP	587
APR	18 700	OCT	1 380
MAY	91 900	NOV	---
JUN	30 800	DEC	---

TOTAL DISCHARGE, 154 000 dam³

MUSKEG RIVER NEAR GRANDE CACHE - STATION NO. 07GA002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.15 B	1.72B	4.10E	---	---	---	---	---	---	---	1
2	---	---	1.15 B	1.85B	4.90E	---	---	---	---	---	---	---	2
3	---	---	1.16 B	1.98B	5.60E	---	---	---	---	---	---	---	3
4	---	---	1.17 B	2.11B	6.55E	---	---	---	---	---	---	---	4
5	---	---	1.18 B	1.57B	8.40E	---	---	---	---	---	---	---	5
6	---	---	1.18 B	2.66B	10.0 E	---	---	---	---	---	---	---	6
7	---	---	1.19 B	2.11B	8.40E	---	---	---	---	---	---	---	7
8	---	---	1.20 B	1.98B	7.40E	---	---	---	---	---	2.44B	---	8
9	---	---	1.20 B	1.36B	6.73A	---	---	---	---	---	---	---	9
10	---	---	1.21 B	1.93B	6.51	---	---	---	---	---	---	---	10
11	---	---	1.22 B	2.21B	6.46	---	---	---	---	---	---	---	11
12	---	---	1.23 B	2.51B	6.66	---	---	---	---	---	---	---	12
13	---	---	1.23 B	2.29B	7.34	---	---	---	---	---	---	---	13
14	---	---	1.24 B	2.85B	7.62	---	---	---	---	---	---	---	14
15	---	---	1.25 B	3.31B	7.70	---	---	---	---	---	---	---	15
16	---	---	1.25 B	4.08B	7.54	---	---	---	---	---	---	---	16
17	---	---	1.26 B	4.54B	8.01	---	---	---	---	---	---	---	17
18	---	---	1.27 B	5.00B	8.60	---	---	---	---	---	---	---	18
19	---	---	1.28 B	5.40B	9.10	---	---	---	---	---	---	---	19
20	---	---	1.28 B	5.60B	9.46	---	---	---	---	---	---	---	20
21	---	---	1.29 B	5.62E	10.2	---	---	---	7.56A	---	---	---	21
22	---	---	1.17 B	5.60E	9.83	---	---	4.05A	---	---	---	---	22
23	---	---	0.916B	5.55E	9.50	---	---	---	---	---	---	---	23
24	---	---	1.18 B	5.30E	10.0	---	---	---	---	---	---	---	24
25	---	---	1.56 B	5.00E	11.8	---	---	---	---	---	---	---	25
26	---	---	1.46 B	4.90E	17.2	---	10.2A	---	---	---	---	---	26
27	---	---	1.29 B	4.60E	18.5	---	---	---	---	---	---	---	27
28	---	1.14B	1.19 B	4.40E	18.1	12.2A	---	---	---	---	---	---	28
29	---	---	1.32 B	4.20E	18.3	---	---	---	---	---	---	---	29
30	---	---	1.45 B	4.00E	20.2 A	---	---	---	---	---	---	---	30
31	---	---	1.58 B		---		---	---		---	---	---	31
TOTAL	---	---	38.706	106.23	---	---	---	---	---	---	---	---	TOTAL
MEAN	---	---	1.25	3.54	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	1.58	5.62	---	---	---	---	---	---	---	---	MAX
MIN	---	---	0.916	1.36	---	---	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 55 32 N
LONG 118 48 52 W
DRAINAGE AREA, 706 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	3 340	SEP	---
APR	9 180	OCT	---
MAY	---	NOV	---
JUN	---	DEC	---

NAMEPI CREEK NEAR THE MOUTH - STATION NO. 05EC004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.001B	4.52 B	0.418	0.013	0.004	0.038	0.006	0.002	0.003A	---	1
2	---	---	0.001B	3.80	0.342	0.006	0.006	0.034	0.009	0.002	---	---	2
3	---	---	0.001B	3.03	0.267	0.005	0.042	0.029	0.008	0.002	---	---	3
4	---	---	0.001B	2.43	0.198	0.005	0.712	0.015	0.008	0.002	---	---	4
5	---	---	0.001B	1.89	0.158	0.004	2.11	0.008	0.011	0.003	---	---	5
6	---	---	0.001B	1.42	0.131	0.005	0.035	0.005	0.010	0.003	---	---	6
7	---	---	0.001B	1.23	0.137	0.003	0.096	0.004	0.011	0.003	---	---	7
8	---	---	0.001B	0.993	0.116	0.003	0.110	0.003	0.015	0.004	---	---	8
9	---	---	0.001B	0.765	0.095	0.002	0.119	0.003	0.012	0.003	---	---	9
10	---	---	0.001B	0.595	0.086	0.004	0.101	0.003	0.009	0.003	---	---	10
11	---	---	0.001B	0.438	0.078	0.004	0.107	0.003	0.005	0.003	---	---	11
12	---	---	0.001B	0.349	0.077	0.003	0.103	0.002	0.010	0.003	---	---	12
13	---	---	0.001B	0.264	0.081	0.004	0.096	0.002	0.013	0.003	---	---	13
14	---	---	0.001B	0.232	0.071	0.003	0.088	0.005	0.011	0.003	---	---	14
15	---	---	0.001B	0.203	0.072	0.002	0.073	0.016	0.007	0.004	---	---	15
16	---	---	0.001B	0.194	0.069	0.002	0.076	0.026	0.004	0.005	---	---	16
17	---	---	0.001B	0.173	0.064	0.002	0.075	0.038	0.004	0.004	---	---	17
18	---	---	0.001B	0.136	0.051	0.001	0.061	0.010	0.003	0.003	---	---	18
19	---	---	0.001B	0.113	0.045	0.001	0.061	0.001	0.003	0.003	---	---	19
20	---	---	0.001B	0.104	0.048	0.001	0.061	0.001	0.003	0.003	---	---	20
21	---	---	0.001B	0.112	0.052	0.001	0.066	0.001	0.002	0.002	---	---	21
22	---	---	0.001B	0.098	0.063	0.001	0.071	0.001	0.002	0.002	---	---	22
23	---	---	0.001B	0.131	0.053	0.001	0.070	0.002	0.002	0.003	---	---	23
24	---	---	0.001B	0.458	0.125	0.002	0.063	0.002	0.002	0.003	---	---	24
25	---	---	0.001B	0.392	0.112	0.007	0.050	0.009	0.002	0.002	---	---	25
26	---	---	0.001B	0.285	0.102	0.008	0.048	0.015	0.003	0.003	---	---	26
27	---	---	0.005B	0.254	0.076	0.010	0.041	0.018	0.002	0.003	---	---	27
28	---	---	0.020B	0.446	0.055	0.004	0.029	0.009	0.002	0.003	---	---	28
29	---	---	0.300B	0.522	0.042	0.003	0.027	0.004	0.002	0.003	---	---	29
30	---		3.40 B	0.497	0.030	0.004	0.023	0.007	0.002	0.003	---	---	30
31	---		6.10 B		0.021		0.031	0.007		0.003		---	31
TOTAL	---	---	9.851	26.074	3.335	0.114	4.655	0.321	0.183	0.091	---	---	TOTAL
MEAN	---	---	0.318	0.869	0.108	0.004	0.150	0.010	0.006	0.003	---	---	MEAN
MAX	---	---	6.10	4.52	0.418	0.013	2.11	0.038	0.015	0.005	---	---	MAX
MIN	---	---	0.001	0.098	0.021	0.001	0.004	0.001	0.002	0.002	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.182
MAXIMUM DAILY, 6.10B ON MAR 31
MINIMUM DAILY, 0.001B ON MAR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 01 50 N
LONG 112 51 35 W
DRAINAGE AREA, 720 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	402
FEB	---	AUG	27.7
MAR	851	SEP	15.8
APR	2 250	OCT	7.86
MAY	288	NOV	---
JUN	9.85	DEC	---

TOTAL DISCHARGE, 3 850 dam³

NEW WEST COULEE NEAR THE MOUTH - STATION NO. 05BN006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.020B	0.185B	0.006	1.35	3.93	1.84	1.64	2.07	---	---	1
2	---	---	0.020B	0.231B	0.004	1.32	3.58	1.75	1.65	1.87	---	---	2
3	---	---	0.014B	0.152B	0.002	1.35	3.58	1.72	1.85	2.06	---	---	3
4	---	---	0.013B	0.084	0.001	1.33	3.34	1.80	1.75	1.97	---	---	4
5	---	---	0.014B	0.048	0	1.35	3.07	2.15	1.72	2.13	---	---	5
6	---	---	0.016B	0.034	0	1.35	3.39	2.16	1.72	2.26	---	---	6
7	---	---	0.025B	0.030	0	1.29	3.36	2.25	1.69	2.30	---	---	7
8	---	---	0.036B	0.030	0	1.29	3.19	2.32	1.87	2.21	---	---	8
9	---	---	0.021B	0.029	0	1.47	3.40	2.30	2.18	1.85	---	---	9
10	---	---	0.018B	0.026	0	1.31	3.11	2.42	2.09	1.68	---	---	10
11	---	---	0.009B	0.027	0	1.66	3.17	2.49	2.24	1.36	---	---	11
12	---	---	0 B	0.038	0	2.12	3.57	2.45	2.28	0.584	---	---	12
13	---	---	0 B	0.043	0	2.25	3.37	2.61	2.66	0.286	---	---	13
14	---	---	0 B	0.050	0.283	2.14	3.62	2.52	2.26	0.087	---	---	14
15	---	---	0 B	0.037	0.550	1.86	3.35	2.29	2.29	0.062	---	---	15
16	---	---	0 B	0.026	1.06	2.14	3.82	2.20	2.14	0.045	---	---	16
17	---	---	0.001B	0.014	1.25	1.98	3.62	2.49	2.29	0.044	---	---	17
18	---	---	0.014B	0.011	1.56	2.22	3.59	2.51	2.31	0.043	---	---	18
19	---	---	0.034B	0.020	1.94	2.33	4.43	2.50	2.31	0.038	---	---	19
20	---	---	0.042B	0.017	1.96	2.49	3.46	2.50	2.03	0.029	---	---	20
21	---	---	0.024B	0.008	2.02	2.76	3.00	2.37	1.95	0.024	---	---	21
22	---	---	0.063B	0.008	1.78	2.44	3.02	2.45	1.92	0.021	---	---	22
23	---	---	0.049B	0.007	1.78	2.62	2.81	2.55	2.18	0.015	---	---	23
24	---	---	0.068B	0.005	1.85	2.76	2.62	2.31	2.10	0.014	---	---	24
25	---	---	0.035B	0.003	2.48	2.71	3.19	2.26	1.82	0.006	---	---	25
26	---	---	0.037B	0.006	1.95	2.70	3.29	2.30	1.79	0.004	---	---	26
27	---	---	0.069B	0.010	1.80	3.02	2.80	2.26	1.98	0.004	---	---	27
28	---	0.019B	0.105B	0.014	1.80	3.50	2.29	1.94	2.25	0.001	---	---	28
29	---		0.222B	0.010	1.64	3.55	2.13	1.98	2.16	0.002A	---	---	29
30	---		0.291B	0.006	1.57	3.58	2.15	1.84	1.96	0.002E	---	---	30
31	---		0.274B		1.39		1.82	1.75		0.002E		---	31
TOTAL	---	---	1.534	1.209	28.776	64.24	99.27	69.28	61.08	23.073	---	---	TOTAL
MEAN	---	---	0.050	0.040	0.928	2.14	3.20	2.23	2.04	0.744	---	---	MEAN
MAX	---	---	0.291	0.231	2.48	3.58	4.43	2.61	2.66	2.30	---	---	MAX
MIN	---	---	0	0.003	0	1.29	1.82	1.72	1.64	0.001	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.42
MAXIMUM DAILY, 4.13 ON JUL 19
MINIMUM DAILY, 02 ON MAR 12
MAXIMUM INSTANTANEOUS,
5.09 AT 10:40 MST ON JUL 19

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 13 00 N
LONG 112 06 15 W
DRAINAGE AREA, 312 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	8 580
FEB	---	AUG	5 990
MAR	133	SEP	5 280
APR	104	OCT	1 990
MAY	2 490	NOV	---
JUN	5 550	DEC	---

TOTAL DISCHARGE, 30 100 dam³

NINE MILE COULEE NEAR LETHBRIDGE - STATION NO. 05AE042

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.022	0.028	0.059	0.447	0.490	0.168	0.278	---	---	1
2	---	---	---	0.021	0.025	0.215	0.612	0.453	0.260	0.333	---	---	2
3	---	---	---	0.015	0.014	0.256	0.645	0.631	0.257	0.189	---	---	3
4	---	---	---	0.012	0.009	0.226	0.548	0.675	0.319	0.198	---	---	4
5	---	---	---	0.008	0.006	0.178	0.453	0.639	0.297	0.267	---	---	5
6	---	---	---	0.007	0.004	0.123	0.505	0.567	0.335	0.360	---	---	6
7	---	---	---	0.006	0.002	0.161	0.566	0.385	0.290	0.275	---	---	7
8	---	---	---	0.007B	0.002	0.153	0.753	0.293	0.368	0.310	---	---	8
9	---	---	---	0.003B	0.003	0.160	0.752	0.380	0.338	0.263	---	---	9
10	---	---	---	0.003B	0.003	0.164	0.439	0.447	0.349	0.122	---	---	10
11	---	---	---	0.008B	0.002	0.153	0.437	0.387	0.361	0.031	---	---	11
12	---	---	---	0.019B	0.003	0.182	0.368	0.385	0.408	0.012	---	---	12
13	---	---	---	0.021	0.003	0.286	0.342	0.342	0.446	0.120	---	---	13
14	---	---	---	0.017	0.002	0.304	0.213	0.416	0.357	0.125	---	---	14
15	---	---	---	0.011	0.002	0.181	0.261	0.486	0.298	0.123	---	---	15
16	---	---	---	0.008	0.001	0.160	0.518	0.423	0.301	0.122	---	---	16
17	---	---	---	0.007	0.001	0.152	0.330	0.601	0.443	0.115	---	---	17
18	---	---	---	0.006	0.001	0.143	0.274	0.375	0.319	0.115	---	---	18
19	---	---	---	0.004	0.009	0.125	0.338	0.394	0.327	0.103	---	---	19
20	---	---	---	0.003	0.009	0.132	0.534	0.384	0.261	0.098	---	---	20
21	---	---	---	0.003	0.008	0.131	0.564	0.351	0.262	0.089	---	---	21
22	---	---	---	0.002	0.063	0.142	0.587	0.215	0.183	0.058	---	---	22
23	---	---	---	0.002	0.323	0.144	0.513	0.237	0.213	0.044	---	---	23
24	---	---	---	0.001	0.545	0.132	0.639	0.250	0.246	0.024	---	---	24
25	---	---	---	0.001	0.760	0.135	0.679	0.200	0.233	0.007	---	---	25
26	---	---	---	0.002	0.197	0.225	0.814	0.242	0.210	0.003	---	---	26
27	---	---	0.014B	0.003	0.133	0.234	0.470	0.256	0.231	0.002	---	---	27
28	---	---	0.014B	0.006	0.127	0.418	0.485	0.250	0.228	0.002	---	---	28
29	---	---	0.020B	0.005	0.252	0.327	0.573	0.280	0.296	0.001	---	---	29
30	---		0.023B	0.011	0.307	0.371	0.572	0.280	0.311	0.001	---	---	30
31	---		0.025B		0.137		0.588	0.196		0.001A		---	31
TOTAL	---	---	---	0.243	2.991	5.772	15.819	11.912	8.915	3.791	---	---	TOTAL
MEAN	---	---	---	0.008	0.097	0.192	0.510	0.384	0.297	0.122	---	---	MEAN
MAX	---	---	---	0.022	0.760	0.418	0.814	0.675	0.446	0.360	---	---	MAX
MIN	---	---	---	0.001	0.001	0.059	0.213	0.196	0.168	0.001	---	---	MIN

SUMMARY FOR THE MONTHS APR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.231
MAXIMUM DAILY, 0.814 ON JUL 26
MINIMUM DAILY, 0.001 ON APR 24

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 33 12 N
LONG 112 46 45 W
DRAINAGE AREA, 157 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 370
FEB	---	AUG	1 030
MAR	---	SEP	770
APR	21.0	OCT	328
MAY	258	NOV	---
JUN	499	DEC	---

TOTAL DISCHARGE, 4 280 dam³

NORDEGG RIVER AT SUNCHILD ROAD - STATION NO. 05DD009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2.22B	1.46 B	1.43B	2.86B	11.3	31.3	12.2	7.23	6.18	3.12	2.42 B	1.98B	1
2	2.17B	1.48 B	1.45B	4.24B	11.9	30.3	11.6	6.70	5.58	3.04	2.28 B	1.93B	2
3	2.13B	1.41 B	1.37B	5.02B	13.5	24.9	30.0	6.43	5.18	2.98	1.83 B	1.94B	3
4	2.11B	1.36 B	1.42B	5.08B	14.3	22.9	53.3	6.05	4.83	3.22	1.41 B	1.90B	4
5	2.12B	1.00 B	1.41B	4.93B	14.3	25.6	36.6	5.69	4.36	3.74	1.95 B	1.87B	5
6	2.16B	1.24 B	1.32B	4.80B	14.9	25.4	42.7	5.27	4.19	3.69	2.28 B	1.84B	6
7	2.13B	1.22 B	1.34B	4.84B	14.0	22.2	130	4.96	3.91	3.56	2.52 B	1.80B	7
8	2.08B	1.20 B	1.30B	5.23B	12.7	18.6	76.2	4.65	3.71	3.53	2.48 B	1.78B	8
9	2.02B	1.18 B	1.33B	8.48B	12.3	16.2	48.7	5.01	3.61	3.65	2.55 B	1.74B	9
10	2.00B	1.15 B	1.37B	5.32B	12.0	14.7	35.8	4.62	3.62	4.00	2.55 B	1.71B	10
11	1.96B	1.13 B	1.43B	5.23B	11.5	19.1	28.4	4.36	3.34	4.21	2.38 B	1.68B	11
12	1.90B	1.10 B	1.36B	4.15B	12.0	57.4	23.4	4.17	3.27	4.17	2.44 B	1.63B	12
13	1.84B	1.09 B	1.35B	4.57B	11.5	82.4	20.3	3.98	3.43	4.06	2.54 B	1.58B	13
14	1.83B	1.07 B	1.40B	5.08B	11.8	78.5	17.5	4.28	3.53	3.81	2.45 B	1.54B	14
15	1.81B	1.04 B	1.44B	5.73B	16.1	51.4	15.7	4.56	3.40	3.60B	2.42 B	1.52B	15
16	1.82B	1.00 B	1.45B	7.18B	15.8	37.8	16.1	4.35	3.62	3.39B	2.20 B	1.49B	16
17	1.84B	0.980B	1.51B	7.64B	15.7	37.1	16.6	4.35	6.79	3.30B	2.10 B	1.46B	17
18	1.83B	0.960B	1.45B	9.78B	18.4	32.9	14.9	5.05	7.98	3.31B	2.07 B	1.43B	18
19	1.86B	0.950B	1.38B	12.3	22.2	27.4	14.2	5.16	6.17	3.32B	1.84 B	1.41B	19
20	1.81B	0.950B	1.26B	15.2	19.4	23.7	14.1	4.64	5.09	3.23B	1.75 B	1.38B	20
21	1.78B	0.960B	1.28B	17.6	19.6	20.9	12.5	4.19	4.32	3.17B	1.64 B	1.36B	21
22	1.70B	1.00 B	1.42B	18.5	29.8	18.4	11.2	4.29	3.99	3.35B	1.40 B	1.35B	22
23	1.69B	1.06 B	1.70B	20.0	25.2	16.5	10.2	9.01	3.79	3.02B	1.10 B	1.32B	23
24	1.66B	1.15 B	1.87B	22.2	23.0	15.0	9.61	16.7	3.62	3.30B	0.977B	1.30B	24
25	1.67B	1.25 B	1.66B	19.7	36.2	13.9	9.66	12.8	3.52	2.78B	1.15 B	1.27B	25
26	1.66B	1.28 B	1.49B	18.6	54.9	13.0	9.32	11.7	3.29	2.55B	1.60 B	1.25B	26
27	1.65B	1.38 B	1.47B	16.7	40.1	12.9	8.31	10.9	3.19	2.61B	1.74 B	1.22B	27
28	1.62B	1.41 B	1.34B	14.8	30.3	13.7	7.68	9.11	3.15	2.62B	1.92 B	1.20B	28
29	1.54B		1.38B	12.7	25.0	14.5	7.20	7.45	3.16	2.61B	2.08 B	1.18B	29
30	1.47B		1.45B	11.5	24.5	13.6	6.77	6.68	3.22	2.64B	2.10 B	1.16B	30
31	1.41B		1.88B		37.9		7.06	6.85		2.47B		1.15B	31
TOTAL	57.49	32.460	44.71	300.96	637.1	832.1	757.51	201.19	127.04	102.05	60.167	47.37	TOTAL
MEAN	1.85	1.16	1.44	10.0	20.6	27.7	24.4	6.49	4.23	3.29	2.01	1.53	MEAN
MAX	2.22	1.48	1.88	22.2	54.9	82.4	130	16.7	7.98	4.21	2.55	1.98	MAX
MIN	1.41	0.950	1.26	2.86	11.3	12.8	6.77	3.98	3.15	2.47	0.977	1.15	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 8.77
MAXIMUM DAILY, 130 ON JUL 07
MINIMUM DAILY, 0.950B ON FEB 19
MAXIMUM INSTANTANEOUS, 160 AT 12:40 MST ON JUL 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 49 13 N
LONG 115 31 10 W
DRAINAGE AREA, 875 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	4 970	JUL	65 400
FEB	2 800	AUG	17 400
MAR	3 860	SEP	11 000
APR	26 000	OCT	8 820
MAY	55 000	NOV	5 200
JUN	71 900	DEC	4 090

TOTAL DISCHARGE, 276 000 dam³

NORTH FORK MILK RIVER ABOVE ST. MARY CANAL - STATION NO. 11AA032

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.396B	0.963	0.934	0.765	0.340	0.311	0.311	0.311	---	---	1
2	---	---	0.396B	1.16	1.16	0.680	0.340	0.340	0.311	0.311	---	---	2
3	---	---	0.396B	1.16	0.906	0.651	0.396	0.396	0.311	0.311	---	---	3
4	---	---	0.566B	0.850	0.821	0.595	0.368	0.368	0.311	0.340	---	---	4
5	---	---	0.850B	0.708	0.765	0.538	0.368	0.340	0.311	0.368	---	---	5
6	---	---	0.566B	0.651	0.821	0.510	0.425	0.311	0.311	0.396	---	---	6
7	---	---	0.566B	0.651	0.793	0.538	0.396	0.283	0.283	0.396	---	---	7
8	---	---	0.680B	0.708	0.765	0.510	0.396	0.283	0.283	0.368	---	---	8
9	---	---	0.566B	0.623	0.793	0.481	0.368	0.283	0.283	0.368	---	---	9
10	---	---	0.510B	0.595B	0.793	0.481	0.340	0.311	0.311	0.368	---	---	10
11	---	---	0.425B	0.595	0.680	0.481	0.340	0.311	0.283	0.396	---	---	11
12	---	---	0.368B	0.708	0.680	0.453	0.340	0.311	0.283	0.368	---	---	12
13	---	---	0.340B	0.793	0.680	0.651	0.340	0.311	0.311	0.368	---	---	13
14	---	---	0.368B	0.821	0.651	0.821	0.340	0.283	0.311	0.368	---	---	14
15	---	---	0.425B	0.821	0.736	0.566	0.340	0.283	0.311	0.368	---	---	15
16	---	---	0.425B	0.934	0.623	0.481	0.340	0.340	0.368	0.368	---	---	16
17	---	---	0.425B	0.878	0.566	0.481	0.340	0.340	0.311	0.368	---	---	17
18	---	---	0.396B	0.906	0.595	0.453	0.340	0.340	0.311	0.368	---	---	18
19	---	---	0.708B	1.05	0.595	0.453	0.340	0.340	0.311	0.368	---	---	19
20	---	---	1.42 B	1.02	0.595	0.425	0.425	0.425	0.340	0.368	---	---	20
21	---	---	0.708B	1.02	0.595	0.453	0.396	0.396	0.340	0.368	---	---	21
22	---	---	0.566B	0.991	0.538	0.453	0.368	0.340	0.340	0.340	---	---	22
23	---	---	0.510B	0.991	0.538	0.425	0.340	0.311	0.311	0.340	---	---	23
24	---	---	0.453B	0.878	0.595	0.396	0.311	0.311	0.311	0.340	---	---	24
25	---	---	0.510B	0.850	0.878	0.396	0.595	0.368	0.311	0.340	---	---	25
26	---	---	0.566B	0.821	0.680	0.368	0.510	0.396	0.283	0.340	---	---	26
27	---	---	0.623	0.878	0.623	0.368	0.396	0.368	0.311	0.340	---	---	27
28	---	---	0.736	0.821	0.595	0.368	0.396	0.340	0.311	0.340	---	---	28
29	---	---	0.850	0.736	2.10	0.368	0.368	0.311	0.311	0.340	---	---	29
30	---		0.934	0.765	1.27	0.368	0.340	0.311	0.311	0.368	---	---	30
31	---		1.02		0.878		0.340	0.283		0.368E		---	31
TOTAL	---	---	18.268	25.346	24.242	14.977	11.582	10.245	9.306	11.069	---	---	TOTAL
MEAN	---	---	0.589	0.845	0.782	0.499	0.374	0.331	0.310	0.357	---	---	MEAN
MAX	---	---	1.42	1.16	2.10	0.821	0.595	0.425	0.368	0.396	---	---	MAX
MIN	---	---	0.340	0.595	0.538	0.368	0.311	0.283	0.283	0.311	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.510
MAXIMUM DAILY, 2.10 ON MAY 29
MINIMUM DAILY, 0.283 ON AUG 07
MAXIMUM INSTANTANEOUS,
3.45 AT 06:30 MDT ON MAY 29

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 58 15 N
LONG 113 03 19 W
DRAINAGE AREA, 156 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	1 000
FEB	---	AUG	885
MAR	1 580	SEP	804
APR	2 190	OCT	956
MAY	2 090	NOV	---
JUN	1 290	DEC	---

TOTAL DISCHARGE, 10 800 dam³

NORTH MILK RIVER NEAR INTERNATIONAL BOUNDARY - STATION NO. 11AA001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.05 B	1.26	17.3	13.1	18.5	17.2	16.4	15.9	0.392A	---	1
2	---	---	0.770B	1.55	17.8	3.88	19.3	16.9	16.4	15.8	---	---	2
3	---	---	0.860B	1.58	17.3	2.71	19.5	16.9	16.4	15.8	---	---	3
4	---	---	1.12 B	1.20	17.0	2.12	19.3	16.8	16.3	16.1	---	---	4
5	---	---	1.38 B	0.987	16.9	1.77	19.6	16.7	16.5	15.9	---	---	5
6	---	---	1.08 B	2.29	17.1	2.82	19.9	16.6	16.7	16.4	---	---	6
7	---	---	0.950B	2.62	16.6	7.11	19.4	16.5	16.7	16.3	---	---	7
8	---	---	0.980B	2.65	17.0	10.2	19.3	16.5	16.6	16.3	---	---	8
9	---	---	0.810B	2.49	17.1	13.2	19.1	16.5	16.6	15.6	---	---	9
10	---	---	0.520B	2.35 B	17.2	14.6	19.0	16.5	16.6	12.4	---	---	10
11	---	---	0.385B	2.56 B	17.1	15.1	18.9	16.5	16.4	8.36	---	---	11
12	---	---	0.305B	2.62	17.0	14.7	18.7	16.4	16.4	5.42	---	---	12
13	---	---	0.268B	2.79	16.8	16.5	18.6	16.4	16.2	3.19	---	---	13
14	---	---	0.322B	2.76	16.7	16.0	18.8	16.4	16.2	1.78	---	---	14
15	---	---	0.340B	2.67	16.8	18.1	18.9	16.4	16.1	1.15	---	---	15
16	---	---	0.415B	2.72	16.5	18.3	18.9	16.6	16.3	0.915	---	---	16
17	---	---	0.395B	2.68	16.2	18.4	18.8	16.5	15.9	0.795	---	---	17
18	---	---	0.500B	2.77	16.1	18.3	18.6	16.5	16.0	0.735	---	---	18
19	---	---	0.950B	2.81	16.1	18.4	18.6	16.5	16.0	0.721	---	---	19
20	---	---	1.74 B	3.50	16.1	18.7	18.7	16.8	16.1	0.677	---	---	20
21	---	---	1.35 B	6.21	16.1	19.0	18.4	16.7	16.0	0.496	---	---	21
22	---	---	1.12 B	10.3	15.6	19.0	18.1	16.6	15.9	0.444	---	---	22
23	---	---	0.875B	13.2	15.7	19.6	17.9	16.4	15.9	0.420	---	---	23
24	---	---	0.725B	15.3	16.0	19.6	17.7	16.5	15.8	0.403	---	---	24
25	---	---	0.620B	16.9	16.8	19.7	18.5	16.6	15.8	0.376	---	---	25
26	---	---	0.555B	17.4	16.5	19.7	18.1	16.7	15.8	0.359	---	---	26
27	---	---	0.660B	17.4	16.6	19.5	17.7	16.7	15.9	0.362	---	---	27
28	---	1.04B	0.810B	17.7	16.8	19.0	17.8	16.5	15.9	0.368	---	---	28
29	---		0.990B	17.2	22.6	18.8	17.8	16.4	15.9	0.349	---	---	29
30	---		1.36	17.0	19.0	18.8	17.7	16.7	15.8	0.354	---	---	30
31	---		1.42		17.4		17.7	16.3		0.371		---	31
TOTAL	---	---	25.625	195.467	525.8	440.71	577.8	514.2	485.5	184.545	---	---	TOTAL
MEAN	---	---	0.827	6.52	17.0	14.7	18.6	16.6	16.2	5.95	---	---	MEAN
MAX	---	---	1.74	17.7	22.6	19.7	19.9	17.2	16.7	16.4	---	---	MAX
MIN	---	---	0.268	0.987	15.6	1.77	17.7	16.3	15.8	0.349	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 12.0
MAXIMUM DAILY, 22.6 ON MAY 29
MINIMUM DAILY, 0.268B ON MAR 13
MAXIMUM INSTANTANEOUS,
27.9 AT 05:10 MST ON MAY 29

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 01 19 N
LONG 112 58 16 W
DRAINAGE AREA, 238 km²

B - ICE CONDITIONS

REGULATED SINCE 1916

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	49 900
FEB	---	AUG	44 400
MAR	2 210	SEP	41 900
APR	16 900	OCT	15 900
MAY	45 400	NOV	---
JUN	38 100	DEC	---

TOTAL DISCHARGE, 255 000 dam³

NORTH RAM RIVER AT FORESTRY ROAD - STATION NO. 05DC011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	1.11A	26.4	6.08	3.34	2.04	1.26	0.900A	---	1
2	---	---	---	---	1.25	27.8	5.97	3.24	1.98	1.25	---	---	2
3	---	---	---	---	1.34	23.6	6.90	3.15	1.91	1.21	---	---	3
4	---	---	---	---	1.52	20.5	6.10	2.98	1.81	1.27	---	---	4
5	---	---	---	---	2.42	16.8	5.82	2.80	1.81	1.34	---	---	5
6	---	---	---	---	3.59	14.3	7.06	2.68	1.76	1.26	---	---	6
7	---	---	---	---	3.05	12.5	13.6	2.53	1.69	1.22	---	---	7
8	---	---	---	---	2.76	10.8	12.9	2.44	1.66	1.21	---	---	8
9	---	---	---	---	2.60	9.48	11.8	2.53	1.62	1.24	---	---	9
10	---	---	---	---	2.58	9.11	10.4	2.49	1.62	1.27	---	---	10
11	---	---	---	---	2.62	9.01	9.16	2.37	1.61	1.25	---	---	11
12	---	---	---	---	2.66	10.5	8.25	2.32	1.74	1.19	---	---	12
13	---	---	---	---	2.64	15.5	7.50	2.30	1.78	1.17	---	---	13
14	---	---	---	---	2.82	18.5	6.49	2.26	1.58	1.12	---	---	14
15	---	---	---	---	2.86	19.4	6.16	2.18	1.53	1.08	---	---	15
16	---	---	---	---	2.98	20.6	6.77	2.16	1.75	1.10	---	---	16
17	---	---	---	---	3.17	23.3	5.92	2.23	1.84	1.02	---	---	17
18	---	---	---	---	3.46	21.9	5.67	2.41	1.60	1.02	---	---	18
19	---	---	---	---	3.97	18.4	5.74	2.34	1.48	1.02	---	---	19
20	---	---	---	---	4.57	16.4	5.23	2.17	1.46	0.956	---	---	20
21	---	---	---	---	6.29	14.4	5.02	2.04	1.42	0.964	---	---	21
22	---	---	---	---	6.48	13.3	4.60	2.38	1.40	0.948	---	---	22
23	---	---	---	---	6.72	12.6	4.60	2.82	1.39	0.889	---	---	23
24	---	---	---	---	8.71	11.4	4.62	2.79	1.38	0.896	---	---	24
25	---	---	---	---	28.1	10.4	4.60	2.61	1.33	0.910	---	---	25
26	---	---	---	---	29.7	9.16	4.23	2.53	1.34	0.940	---	---	26
27	---	---	---	---	21.0	8.33	3.89	2.41	1.33	0.961	---	---	27
28	---	---	---	---	16.7	7.73	3.76	2.25	1.32	0.958	---	---	28
29	---	---	---	---	15.0	6.93	3.57	2.15	1.24	0.941	---	---	29
30	---		---	---	23.2	6.47	3.46	2.16	1.28	0.923	---	---	30
31	---		---		29.4		3.40	2.10		0.908		---	31
TOTAL	---	---	---	---	245.27	445.52	199.27	77.16	47.70	33.694	---	---	TOTAL
MEAN	---	---	---	---	7.91	14.9	6.43	2.49	1.59	1.09	---	---	MEAN
MAX	---	---	---	---	29.7	27.8	13.6	3.34	2.04	1.34	---	---	MAX
MIN	---	---	---	---	1.11	6.47	3.40	2.04	1.24	0.889	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 5.70
MAXIMUM DAILY, 29.7 ON MAY 26
MINIMUM DAILY, 0.889 ON OCT 23
MAXIMUM INSTANTANEOUS,
38.9 AT 20:25 MST ON JUN 30

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 16 55 N
LONG 115 59 30 W
DRAINAGE AREA, 348 km²
A - MANUAL GAUGE

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	17 200
FEB	---	AUG	6 670
MAR	---	SEP	4 120
APR	---	OCT	2 910
MAY	21 200	NOV	---
JUN	38 500	DEC	---

TOTAL DISCHARGE, 90 600 dam³

NORTH SASKATCHEWAN RIVER AT EDMONTON - STATION NO. 05DF001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	155B	100 B	100 B	387B	285	790	614	304	279	129	130	80.4B	1
2	148B	103 B	92.0B	411B	286	773	606	287	250	131	125	107 B	2
3	155B	120 B	109 B	394B	266	756	877	282	221	186	131	95.7B	3
4	151B	96.2B	102 B	394	239	916	2 340	296	186	150	127	69.4B	4
5	173B	106 B	114 B	375	304	883	1 880	257	196	116	107	68.4B	5
6	162B	91.3B	126 B	340	373	909	1 200	239	218	143	115	99.1B	6
7	125B	92.9B	131 B	314	360	852	1 230	239	223	150	139	97.0B	7
8	120B	113 B	122 B	301	353	749	1 310	252	215	111	114	95.5B	8
9	138B	124 B	132 B	279	348	707	1 190	237	206	132	120	102 B	9
10	152B	133 B	119 B	271	343	668	964	253	180	134	120 B	107 B	10
11	144B	110 B	131 B	255	343	631	864	247	172	152	119 B	88.8B	11
12	165B	108 B	130 B	238	353	872	770	231	186	173	119 B	91.4B	12
13	163B	110 B	123 B	243	342	1 290	703	214	186	174	118 B	117 B	13
14	152B	110 B	126 B	250	336	1 340	639	223	190	156	118 B	81.8B	14
15	149B	105 B	124 B	257	344	1 210	593	227	195	124	117 B	99.5B	15
16	158B	105 B	131 B	265	360	1 030	604	257	185	139	112 B	106 B	16
17	180B	100 B	152 B	293	344	894	596	235	160	161	111 B	122 B	17
18	185B	94.0B	171 B	285B	351	834	577	236	159	174	96.3B	99.7B	18
19	185B	86.8B	202 B	277B	345	775	534	237	175	169	83.2B	97.3B	19
20	181B	88.9B	256 B	269B	339	773	528	233	199	156	79.6B	106 B	20
21	148B	96.7B	274 B	261	324	743	541	208	179	155	112 B	75.0B	21
22	171B	98.5B	241 B	266	340	713	461	224	178	133	91.5B	60.5B	22
23	160B	111 B	210 B	278	446	672	441	224	166	132	97.8B	65.5B	23
24	179B	127 B	205 B	309	441	637	455	226	137	161	89.1B	63.3B	24
25	178B	112 B	179 B	349	443	644	418	297	162	151	112 B	94.2B	25
26	182B	103 B	165 B	348	584	675	383	347	179	132	78.9B	108 B	26
27	182B	91.2B	165 B	351	833	668	404	330	173	131	80.3B	113 B	27
28	178B	100 B	216 B	339	802	642	368	314	152	138	55.6B	116 B	28
29	170B		249 B	316	667	639	344	317	150	123	83.5B	111 B	29
30	157B		299 B	304	602	623	314	328	163	116	93.8B	124 B	30
31	111B		349 B		578		306	347		121		123 B	31
TOTAL	4 957	2 937.3	5 245.8	9 219	12 674	24 308	23 054	8 148	5 620	4 453	3 195.6	2 984.5	TOTAL
MEAN	160	105	169	307	409	810	744	263	187	144	107	96.3	MEAN
MAX	185	133	349	411	833	1 340	2 340	347	279	186	139	124	MAX
MIN	111	86.8	92.8	238	239	623	306	208	137	111	55.6	60.5	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 293
MAXIMUM DAILY, 2 340 ON JUL 04
MINIMUM DAILY, 55.6B ON NOV 28
MAXIMUM INSTANTANEOUS,
2 660 AT 20:20 MST ON JUL 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 32 15 N
LONG 113 29 04 W
DRAINAGE AREA, 28 000 km²

B - ICE CONDITIONS

REGULATED SINCE 1960

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	428 000	JUL	1 990 000
FEB	254 000	AUG	704 000
MAR	453 000	SEP	486 000
APR	797 000	OCT	385 000
MAY	1 100 000	NOV	276 000
JUN	2 100 000	DEC	258 000

TOTAL DISCHARGE, 9 230 000 dam³

NORTH SASKATCHEWAN RIVER AT WHIRLPOOL POINT - STATION NO. 05DA009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	6.96B	5.35B	5.25B	5.65B	12.4	149	194	217	105	40.9	15.6	9.10B	1
2	6.88B	5.35B	5.35B	6.00B	12.6	147	183	201	89.4	38.0	13.4 B	9.10B	2
3	6.86B	6.00B	5.45B	6.40B	12.7	136	178	176	81.8	33.0	12.1 B	9.10B	3
4	6.88B	6.26B	5.57B	6.75B	13.2	133	167	169	76.6	35.7	11.6 B	10.2 B	4
5	6.90B	6.26B	5.63B	7.00B	16.2	111	160	185	74.4	41.8	11.5 B	11.2 B	5
6	6.98B	6.19B	5.65B	7.00B	28.4	90.2	203	207	77.2	34.9	11.5 B	11.3 B	6
7	7.03B	6.00B	5.61B	6.85B	33.4	82.8	229	214	84.7	30.8	11.7 B	11.3 B	7
8	7.05B	5.92B	5.58B	6.50B	29.8	81.9	212	200	92.1	28.6	11.8 B	11.2 B	8
9	6.90B	5.90B	5.53B	5.85B	26.7	80.6	211	201	90.7	27.6	12.0 B	11.0 B	9
10	6.70B	5.90B	5.47B	5.54B	25.1	85.4	217	202	91.1	27.6	12.3 B	10.9 B	10
11	6.40B	6.05B	5.43B	4.70B	23.9	102	220	208	92.9	25.2	12.7 B	10.7 B	11
12	6.13B	6.20B	5.42B	5.36	23.7	95.1	246	218	93.2	23.9	19.7 B	10.2 B	12
13	5.90B	6.25B	5.38B	5.50	23.3	79.4	275	225	76.2	23.0	22.7 B	9.70B	13
14	5.68B	6.10B	5.36B	5.99	22.3	68.5	268	230	69.6	21.4	21.2 B	9.30B	14
15	5.72B	5.23B	5.33B	6.71	21.6	73.5	230	234	78.0	20.4	17.4 B	8.60B	15
16	5.75B	5.23B	5.31B	7.34	21.7	94.7	241	228	91.2	19.9	15.5 B	8.00B	16
17	5.67B	5.25B	5.35B	7.97	23.1	121	230	218	88.5	18.2	13.5 B	7.20B	17
18	5.59B	5.28B	5.40B	9.49	25.0	143	196	197	70.6	18.8	13.2 B	6.60B	18
19	5.50B	5.30B	5.45B	11.8	25.8	147	177	188	62.5	17.9	12.8 B	6.00B	19
20	5.48B	5.28B	5.45B	13.3	26.6	140	161	185	58.5	16.4	10.5 B	5.60B	20
21	5.52B	5.20B	5.44B	14.7	29.4	143	154	204	52.5	16.6	11.7 B	5.45B	21
22	5.65B	5.00B	5.10B	15.6	30.4	162	160	217	54.8	16.2	11.6 B	5.40B	22
23	5.85B	4.83B	5.00B	16.1	30.6	203	172	209	61.2	15.5	15.4 B	5.40B	23
24	5.97B	4.80B	5.00B	16.0	35.9	229	186	159	74.4	15.2	20.0 B	5.45B	24
25	6.00B	4.82B	5.02B	16.2	47.8	229	178	130	80.2	15.8	18.5 B	5.60B	25
26	6.00B	4.88B	5.07B	16.9	69.3	218	183	116	73.0	19.1	15.0 B	5.70B	26
27	5.98B	4.99B	5.12B	15.9	76.3	212	197	99.6	57.3	17.2	10.2 B	5.90B	27
28	5.93B	5.08B	5.17B	14.6	80.8	203	203	88.9	51.1	18.0	9.60B	6.00B	28
29	5.80B		5.21B	13.4	95.6	184	190	92.3	50.1	17.1	9.30B	6.05B	29
30	5.60B		5.28B	12.7	132	180	203	116	46.9	16.4	9.20B	6.05B	30
31	5.47B		5.40B		153		212	128		16.2		6.05B	31
TOTAL	190.73	154.90	165.78	297.80	1 236.6	4 124.1	6 236	5 670.8	2 245.7	727.3	415.20	249.35	TOTAL
MEAN	6.15	5.53	5.35	9.93	39.9	137	201	183	74.9	23.5	13.8	8.04	MEAN
MAX	7.05	6.26	5.65	16.9	153	229	275	238	105	41.8	22.7	11.3	MAX
MIN	5.47	4.80	5.00	4.70	12.4	68.5	154	88.9	46.9	15.2	9.20	5.40	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 59.5
MAXIMUM DAILY, 275 ON JUL 13
MINIMUM DAILY, 4.70B ON APR 11
MAXIMUM INSTANTANEOUS,
285 AT 04:38 MST ON JUL 14

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 00 06 N
LONG 116 28 10 W
DRAINAGE AREA, 1 920 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	16 500	JUL	539 000
FEB	13 400	AUG	490 000
MAR	14 300	SEP	194 000
APR	25 700	OCT	62 800
MAY	107 000	NOV	35 900
JUN	356 000	DEC	21 500

TOTAL DISCHARGE, 1 880 000 dam³

NORTH SASKATCHEWAN RIVER BELOW BIGHORN PLANT - STATION NO. 05DC010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	62.0	39.1	54.7	67.5	40.4	39.8	166	113	89.0	61.9	44.6	74.6	1
2	23.1	37.7	59.6	66.5	85.4	121	173	108	80.2	24.2	48.0	55.4	2
3	35.7	38.6	60.4	70.9	135	112	176	108	85.0	52.0	57.8	55.7	3
4	53.7	38.3	60.9	72.7	169	123	159	97.9	117	56.5	44.5	50.5	4
5	53.9	38.9	54.7	75.6	167	124	156	92.1	98.5	65.3	46.3	67.1	5
6	58.2	38.8	59.2	73.0	155	107	170	88.4	101	72.7	33.3	47.1	6
7	53.4	39.0	60.0	70.3	168	122	152	104	98.7	82.8	46.2	58.1	7
8	57.1	38.9	60.0	73.9	135	119	157	102	85.6	70.1	43.2	58.6	8
9	61.9	37.8	56.1	72.6	147	120	162	103	80.8	73.7	61.6	55.0	9
10	61.4	40.2	66.5	80.4	163	114	161	104	96.1	84.0	69.3	52.0	10
11	61.9	39.7	59.0	78.0	165	111	162	105	93.6	79.3	57.5	63.0	11
12	63.4	36.1	65.7	80.5	165	92.6	165	103	92.8	69.5	53.5	63.0	12
13	61.6	40.4	66.0	74.1	157	114	162	114	95.7	73.4	49.4	59.7	13
14	59.3	40.9	65.6	79.9	163	128	179	108	91.0	79.5	53.2	51.5	14
15	66.1	41.8	70.2	73.5	163	113	171	120	95.0	87.4	46.9	53.3	15
16	67.6	44.5	65.2	82.8	163	118	179	126	76.1	91.9	50.1	50.1	16
17	64.1	40.9	66.4	80.4	163	109	180	116	85.0	75.1	73.4	51.1	17
18	68.8	45.4	67.7	82.3	145	115	180	113	86.7	72.7	62.5	50.7	18
19	70.2	45.8	68.6	81.4	153	122	172	89.0	94.5	88.2	49.6	55.4	19
20	67.3	48.6	72.8	82.0	136	120	158	122	78.7	81.4	52.8	57.5	20
21	62.7	48.4	77.1	79.1	148	121	169	84.3	78.1	79.7	58.9	44.8	21
22	68.5	47.5	69.9	79.0	149	102	162	97.1	94.2	55.8	54.7	39.5	22
23	65.0	49.8	63.9	80.2	139	143	169	154	82.4	45.4	55.3	38.2	23
24	62.4	49.4	65.6	81.8	139	151	118	155	93.2	48.5	81.3	39.0	24
25	59.5	49.8	57.1	83.5	129	172	119	155	91.9	50.0	65.6	40.2	25
26	60.4	52.5	67.0	83.5	118	174	125	149	79.9	39.2	52.1	39.5	26
27	66.2	54.4	69.0	82.9	123	175	123	157	89.5	40.6	52.3	39.7	27
28	66.1	54.7	70.1	83.3	140	176	110	130	81.7	36.8	60.2	39.4	28
29	68.9		70.2	76.5	108	176	99.1	132	79.3	36.4	55.2	39.1	29
30	55.1		59.5	82.6	119	176	114	112	80.4	48.0	53.5	39.3	30
31	38.9		68.5		62.1		109	124		43.6		39.1	31
TOTAL	1 844.4	1 217.9	2 006.3	2 330.7	4 311.9	3 810.4	4 757.1	3 585.8	2 671.5	1 965.6	1 632.8	1 567.2	TOTAL
MEAN	59.5	43.5	64.7	77.7	139	127	153	116	89.1	63.4	54.4	50.6	MEAN
MAX	70.2	54.7	77.1	83.5	169	176	180	157	117	91.9	81.3	74.6	MAX
MIN	23.1	36.1	54.7	66.5	40.4	39.8	99.1	84.3	76.1	24.2	33.3	38.2	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 86.9
MAXIMUM DAILY, 180 ON JUL 17
MINIMUM DAILY, 23.1 ON JAN 0

DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 18 36 N
LONG 116 19 21 W
DRAINAGE AREA, 3 890 km²

REGULATED SINCE 1972

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	159 000	JUL	411 000
FEB	105 000	AUG	310 000
MAR	173 000	SEP	231 000
APR	201 000	OCT	170 000
MAY	373 000	NOV	141 000
JUN	329 000	DEC	135 000

TOTAL DISCHARGE, 2 740 000 dam³

NORTH SASKATCHEWAN RIVER NEAR LODGEPOLE - STATION NO. 05DE006

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	3.010	4.311	3.905	2.998	2.838	2.511	---	---	1
2	---	---	---	---	2.928	4.317	3.846	3.033	2.717	2.694	---	---	2
3	---	---	---	---	2.902	4.634	4.670	3.055	2.628	2.524	---	---	3
4	---	---	---	---	3.185	4.472	4.985	2.929	2.772	2.360	---	---	4
5	---	---	---	---	3.330	4.406	4.569	2.859	2.820	2.489	---	---	5
6	---	---	---	---	3.285	4.341	4.530	2.911	2.754	2.320	---	---	6
7	---	---	---	---	3.288	4.178	4.879	2.927	2.759	2.374	---	---	7
8	---	---	---	---	3.248	4.102	4.900	2.858	2.684	2.428	---	---	8
9	---	---	---	---	3.223	4.043	4.591	2.915	2.553	2.501	---	---	9
10	---	---	---	---	3.249	3.978	4.420	2.911	2.636	2.540	---	---	10
11	---	---	---	---	3.281	4.082	4.140A	2.828	2.678	2.659	---	---	11
12	---	---	---	---	3.254	4.644	---	2.790	2.610	2.491	---	---	12
13	---	---	---	---	3.266	4.877	---	2.849	2.662	2.447	---	---	13
14	---	---	---	---	3.293	4.847	---	2.791	2.704	2.394	---	---	14
15	---	---	---	---	3.341	4.636	---	2.785	2.589	2.581	---	---	15
16	---	---	---	---	3.286	4.403	---	2.861	2.494	2.549	---	---	16
17	---	---	---	---	3.329	4.340	---	2.853	2.583	2.590	---	---	17
18	---	---	---	---	3.275	4.206	---	2.848	2.617	2.523	---	---	18
19	---	---	---	---	3.286	4.237	---	2.804	2.716	2.484	---	---	19
20	---	---	---	---	3.261	4.178	---	2.763	2.591	2.415	---	---	20
21	---	---	---	---	3.307	4.117	---	2.864	2.599	2.393	---	---	21
22	---	---	---	---	3.504	4.028	---	2.729	2.448	2.511	---	---	22
23	---	---	---	---	3.464	3.956	3.498A	2.873	2.483	2.555	---	---	23
24	---	---	---	---	3.489	3.988	3.388	3.101	2.694	2.418	---	---	24
25	---	---	---	---	3.744	4.033	3.281	3.202	2.605	2.385	---	---	25
26	---	---	---	---	4.371	4.012	3.361	3.135	2.505	2.397	---	---	26
27	---	---	---	---	4.368	3.923	3.228	3.132	2.515	2.390	---	---	27
28	---	---	---	---	4.065	3.954	3.165	3.142	2.549	2.292	---	---	28
29	---		---	---	3.914	3.948	3.085	3.208	2.423	2.287A	---	---	29
30	---		---	2.983A	3.861	3.947	3.086	3.065	2.406	---	---	---	30
31	---		---		4.380		3.094	2.978		---		---	31
MEAN	---	---	---	---	3.451	4.239	---	2.938	2.621	---	---	---	MEAN
MAX	---	---	---	---	4.380	4.877	---	3.208	2.838	---	---	---	MAX
MIN	---	---	---	---	2.902	3.947	---	2.729	2.406	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 4.985 ON JUL 04

MAXIMUM INSTANTANEOUS,
5.223 AT 00:04 MST ON JUL 04

WATER LEVELS ARE REFERRED TO ASSUMED DATUM
APPLY 784.860 m ADJUSTMENT TO CONVERT TO GEODETIC SURVEY OF CANADA DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 03 06 N
LONG 115 12 33 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1960

DRAINAGE AREA,
20 500 km²

NORTH SASKATCHEWAN RIVER NEAR ROCKY MOUNTAIN HOUSE - STATION NO. 05DC001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	108	131	380	318	209	186	118	77.2	---	1
2	---	---	---	107	97.3	504	307	210	150	85.3	75.9	---	2
3	---	---	---	113	154	575	368	201	136	60.7	75.7	---	3
4	---	---	---	109	215	500	376	196	148	85.9	84.5	---	4
5	---	---	---	108	231	450	321	177	166	94.2	73.2	---	5
6	---	---	---	105	241	386	330	170	151	104	---	---	6
7	---	---	---	102	238	354	421	162	158	111	---	---	7
8	---	---	---	101	241	341	426	181	141	118	---	---	8
9	---	---	---	97.0	208	321	362	176	129	113	---	---	9
10	---	---	---	98.0	217	316	344	183	127	107	---	---	10
11	---	---	---	99.6	229	319	321	173	140	117	---	---	11
12	---	---	---	102	235	429	325	174	137	117	---	---	12
13	---	---	---	107	236	471	311	178	141	99.5	---	---	13
14	---	---	---	107	231	512	304	180	144	119	---	---	14
15	---	---	---	116	231	467	304	171	135	105	---	---	15
16	---	---	---	111	232	412	299	195	135	118	---	---	16
17	---	---	---	121	236	426	306	197	126	114	---	---	17
18	---	---	---	124	239	403	297	192	141	101	---	---	18
19	---	---	---	131	225	381	298	192	132	104	---	---	19
20	---	---	---	136	227	360	284	170	137	110	---	---	20
21	---	---	---	135	236	355	266	184	120	114	---	---	21
22	---	---	---	136	249	338	266	163	123	114	---	---	22
23	---	---	---	140	243	332	259	207	134	84.7	---	---	23
24	---	---	---	144	242	353	251	252	115	75.7	---	---	24
25	---	---	---	148	330	348	232	244	140	79.0	---	---	25
26	---	---	---	151	509	354	234	242	123	80.1	---	---	26
27	---	---	---	148	445	348	231	233	115	69.5	---	---	27
28	---	---	---	143	374	342	230	215	123	69.9	---	---	28
29	---	---	95.2	138	340	327	212	206	123	66.7	---	---	29
30	---		100	123	359	327	201	200	108	66.1	---	---	30
31	---		101		481		208	180		76.3		---	31
TOTAL	---	---	---	3 608.6	8 102.3	11 741	9 212	6 013	4 084	2 997.6	---	---	TOTAL
MEAN	---	---	---	120	261	391	297	194	136	96.7	---	---	MEAN
MAX	---	---	---	151	509	575	426	252	186	119	---	---	MAX
MIN	---	---	---	97.0	97.3	316	201	162	108	60.7	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 229
MAXIMUM DAILY, 575 ON JUN 03
MINIMUM DAILY, 60.7 ON OCT 03
MAXIMUM INSTANTANEOUS,
594 AT 06:30 MST ON JUN 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 22 51 N
LONG 114 56 21 W
DRAINAGE AREA, 11 000 km²

REGULATED SINCE 1972

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	796 000
FEB	---	AUG	520 000
MAR	---	SEP	353 000
APR	3 608.6	OCT	259 000
MAY	700 000	NOV	---
JUN	1 010 000	DEC	---

TOTAL DISCHARGE, 3 640 000 dam³

NOTIKEWIN RIVER AT MANNING - STATION NO. 07HC001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.70 B	0.620B	0.405B	1.37B	59.9	59.7	21.5	5.53	0.746	0.375	0.784B	0.300B	1
2	1.51 B	0.620B	0.399B	1.68B	81.4	62.0	30.7	5.21	0.701	0.463	0.763B	0.273B	2
3	1.44 B	0.630B	0.392B	2.13B	99.8	57.1	43.7	4.74	0.740	0.508	0.742B	0.253B	3
4	1.44 B	0.640B	0.405B	2.28B	113	51.1	50.0	4.26	0.794	0.520	0.732B	0.247B	4
5	1.42 B	0.650B	0.405B	2.47B	121	44.8	44.2	3.68	0.785	0.569	0.721B	0.240B	5
6	1.39 B	0.630B	0.412B	2.66B	132	39.6	36.6	3.30	0.735	0.619	0.711B	0.280B	6
7	1.36 B	0.600B	0.418B	3.08B	145	35.6	31.9	2.91	0.679	0.659	0.701B	0.300B	7
8	1.34 B	0.580B	0.405B	3.45B	140	33.0	29.2	2.65	0.621	0.685	0.672B	0.280B	8
9	1.30 B	0.500B	0.392B	2.99B	122	32.0	28.8	2.43	0.593	0.748	0.606B	0.250B	9
10	1.26 B	0.450B	0.379B	2.44B	111	30.5	26.6	2.24	0.556	0.831	0.532B	0.205B	10
11	1.24 B	0.392B	0.372B	2.13B	99.6	32.8	25.7	2.10	0.531	0.904	0.499B	0.200B	11
12	1.24 B	0.389B	0.366B	2.34B	88.3	103	23.1	1.97	0.516	0.944	0.515B	0.198B	12
13	1.20 B	0.386B	0.359B	2.20B	77.8	325	20.8	1.89	0.486	1.12	0.540B	0.195B	13
14	1.17 B	0.383B	0.385B	3.36B	69.7	337	18.8	1.65	0.472	1.39	0.557B	0.193B	14
15	1.15 B	0.380B	0.548B	5.33B	61.2	222	19.5	1.60	0.472	1.37	0.565B	0.190B	15
16	1.13 B	0.378B	0.647B	5.46B	55.1	142	19.1	1.52	0.487	1.33	0.557B	0.185B	16
17	1.10 B	0.377B	0.836B	6.04B	50.5	101	16.8	1.49	0.509	1.34	0.548B	0.171B	17
18	1.09 B	0.375B	0.846B	13.5 B	46.2	75.7	15.9	1.44	0.479	1.33	0.524B	0.145B	18
19	1.06 B	0.375B	0.815B	19.3 B	43.2	60.8	16.6	1.37	0.447	1.38	0.499B	0.120B	19
20	1.05 B	0.375B	0.794B	55.3 B	41.8	50.5	17.2	1.26	0.452	1.32	0.474B	0.075B	20
21	1.04 B	0.375B	0.763B	103 B	40.0	43.1	15.1	1.18	0.441	0.898B	0.441B	0.055B	21
22	0.991B	0.378B	0.647B	128	38.6	36.8	13.1	1.08	0.431	0.981B	0.425B	0.045B	22
23	0.908B	0.379B	0.598B	137	38.9	31.3	11.5	1.02	0.416	1.05 B	0.412B	0.038B	23
24	0.836B	0.390B	0.565B	141	39.4	26.8	10.2	1.03	0.390	1.16 B	0.392B	0.033B	24
25	0.815B	0.405B	0.557B	146	39.0	22.8	9.16	1.01	0.356	1.10 B	0.379B	0.028B	25
26	0.825B	0.412B	0.565B	130	41.6	20.1	8.24	0.994	0.358	1.05 B	0.372B	0.026B	26
27	0.815B	0.412B	0.606B	95.4	101	18.3	7.56	0.973	0.348	1.04 B	0.359B	0.024B	27
28	0.773B	0.405B	0.742B	73.5	140	17.0	6.91	0.949	0.342	1.04 B	0.352B	0.022B	28
29	0.745B		0.877B	59.7	99.3	16.0	6.62	0.911	0.352	0.898B	0.346B	0.020B	29
30	0.695B		1.07 B	52.9	75.8	16.6	6.40	0.848	0.352	0.825B	0.339B	0.018B	30
31	0.650B		1.12 B		63.7		5.79	0.837		0.794B		0.015B	31
TOTAL	34.683	12.886	18.090	1 208.01	2 475.8	2 144.0	638.18	64.072	15.584	29.241	16.059	4.624	TOTAL
MEAN	1.12	0.460	0.584	40.3	79.9	71.5	20.6	2.07	0.520	0.943	0.535	0.149	MEAN
MAX	1.70	0.650	1.12	146	145	337	50.0	5.53	0.794	1.39	0.784	0.300	MAX
MIN	0.650	0.375	0.359	1.37	38.6	16.0	5.79	0.837	0.342	0.375	0.339	0.015	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 18.2
MAXIMUM DAILY, 337 ON JUN 14
MINIMUM DAILY, 0.015B ON DEC 31
MAXIMUM INSTANTANEOUS,
368 AT 02:00 MST ON JUN 14

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 55 10 N
LONG 117 37 05 W
DRAINAGE AREA, 4 680 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	3 000	JUL	55 100
FEB	1 110	AUG	5 540
MAR	1 560	SEP	1 350
APR	104 000	OCT	2 530
MAY	214 000	NOV	1 390
JUN	185 000	DEC	400

TOTAL DISCHARGE, 575 000 dam³

OLDMAN RIVER NEAR BROCKET - STATION NO. 05AA024

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	14.6 B	9.45B	10.4 B	19.2B	64.5	324	105	59.3	17.1	10.6	20.0	15.8 B	1
2	15.1 B	9.50B	10.6 B	21.5	69.6	288	101	56.7	17.0	10.8	19.9	13.1 B	2
3	15.5 B	9.60B	10.8 B	30.0	75.6	264	95.5	54.8	16.8	11.1	18.0	11.6 B	3
4	15.7 B	9.62B	11.0 B	33.5	88.3	245	87.7	48.9	16.3	11.0	17.0	15.8 B	4
5	15.8 B	9.55B	11.3 B	31.4	110	228	80.0	44.6	15.8	26.8	18.4	15.5 B	5
6	15.9 B	9.50B	11.7 B	30.0	167	205	74.7	41.0	15.3	32.3	15.0	14.8 B	6
7	16.0 B	9.65B	11.8 B	29.9	183	190	72.1	37.4	14.6	22.2	13.9	15.5 B	7
8	15.9 B	9.90B	12.0 B	31.3	154	183	71.9	34.8	14.2	19.1	17.5	15.6 B	8
9	15.7 B	10.0 B	10.5 B	30.7	128	172	65.7	32.9	14.1	18.0	18.1	16.0 B	9
10	14.9 B	9.90B	10.1 B	25.2B	116	171	62.6	30.9	13.8	18.7	25.9	16.4 B	10
11	14.4 B	9.65B	9.48B	26.2B	105	183	60.1	29.2	13.5	19.9	67.2	15.3 B	11
12	14.3 B	9.55B	9.26B	27.6	100	179	58.7	28.4	13.2	18.1	70.3	13.5 B	12
13	14.4 B	9.49B	9.20B	27.4	97.1	159	57.1A	27.5	13.9	17.6	57.3	9.63B	13
14	14.3 B	9.40B	9.25B	28.4	94.6	149	55.4	26.1	14.1	17.1	51.4	8.68B	14
15	13.8 B	9.35B	9.35B	32.2	91.9	138	52.8	24.6	13.1	16.4	43.7	11.9 B	15
16	12.9 B	9.30B	9.45B	36.7	89.3	127	48.9	24.3	12.7	16.3	37.1	11.7 B	16
17	12.2 B	9.25B	9.75B	38.1	88.1	121	45.7	23.6	12.5	15.8	34.1	12.2 B	17
18	11.8 B	9.20B	10.0 B	42.6	92.6	120	42.7	25.4	12.3	15.2	30.9	12.4 B	18
19	11.7 B	9.15B	10.3 B	56.8	101	120	44.8	25.6	12.0	15.5	26.7B	8.82B	19
20	11.6 B	9.60B	10.4 B	75.2	107	122	44.9	27.2	12.0	14.9	24.5B	5.25B	20
21	11.8 B	10.2 B	10.3 B	90.1	106	129	40.5	26.0	11.8	14.3	22.0B	5.00B	21
22	12.1 B	10.8 B	10.0 B	103	104	133	36.7	22.9	11.6	14.9	22.3B	4.80B	22
23	12.2 B	11.1 B	9.90B	108	109	133	34.2	20.9	11.4	14.8	25.5B	4.90B	23
24	11.8 B	12.2 B	10.0 B	107	117	136	38.1	21.8	11.1	14.4	21.5B	5.00B	24
25	11.4 B	13.0 B	10.5 B	101	355	139	56.1	22.9	10.8	14.4	17.5B	5.20B	25
26	11.1 B	12.0 B	11.4 B	91.8	418	139	105	24.4	10.7	14.8	15.0B	5.40B	26
27	10.6 B	10.9 B	10.9 B	83.1	337	136A	97.3	22.3	10.8	18.2	16.2B	5.30B	27
28	10.3 B	10.5 B	10.9 B	79.1	277	114	87.4	19.7	10.8	16.6	16.5B	5.25B	28
29	10.0 B		11.2 B	68.7	338	114	78.9	18.0	10.8	17.5	17.4B	5.20B	29
30	9.75B		13.2 B	63.1	391	107	71.4	17.5	10.8	17.4	16.5B	5.20B	30
31	9.50B		16.2 B		359		64.1	17.3		17.5		5.50B	31
TOTAL	407.05	281.31	331.14	1 568.8	5 063.6	4 968	2 037.0	936.9	394.9	522.5	817.3	316.23	TOTAL
MEAN	13.1	10.0	10.7	52.3	163	166	65.7	30.2	13.2	16.9	27.2	10.2	MEAN
MAX	16.0	13.0	16.2	108	418	324	105	59.3	17.1	32.3	70.3	16.4	MAX
MIN	9.50	9.15	9.20	19.2	64.5	107	34.2	17.3	10.7	10.6	13.9	4.80	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 48.3
MAXIMUM DAILY, 418 ON MAY 26
MINIMUM DAILY, 4.80B ON DEC 22
MAXIMUM INSTANTANEOUS,
432 AT 12:30 MST ON MAY 26

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 33 27 N
LONG 113 49 20 W
DRAINAGE AREA, 4 400 km²

A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	35 200	JUL	176 000
FEB	24 300	AUG	80 900
MAR	28 600	SEP	34 100
APR	136 000	OCT	45 100
MAY	437 000	NOV	70 600
JUN	429 000	DEC	27 300

TOTAL DISCHARGE, 1 520 000 dam³

OLDMAN RIVER NEAR LETHBRIDGE - STATION NO. 05AD007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	30.0 B	12.0B	42.3B	41.2	152	631	115	64.3	22.0	7.70	35.3	24.5 B	1
2	18.2 B	15.0B	41.6B	46.0	149	606	111	61.1	24.8	8.11	34.7	25.9 B	2
3	16.6 B	20.0B	41.3B	49.2	161	553	106	58.6	23.3	7.74	39.1	27.5 B	3
4	16.4 B	24.0B	46.0B	58.4	166	513	80.4	56.7	22.0	7.43	43.6	26.2 B	4
5	17.8 B	23.0B	47.0B	69.4	172	453	67.1	51.9	20.9	8.07	42.4	36.8 B	5
6	17.9 B	23.0B	43.4B	71.4	188	406	57.9	47.8	17.8	8.43	39.0B	41.0 B	6
7	17.0 B	22.0B	45.2B	70.1	248	369	59.8	41.8	15.5	22.9	38.5B	39.5 B	7
8	18.3 B	22.0B	49.0B	71.6	279	344	68.2	37.5	14.3	28.6	37.0B	37.5 B	8
9	17.9 B	23.8B	47.6B	74.1	263	294	78.0	34.2	12.7	26.9	36.0B	40.5 B	9
10	17.9 B	24.0B	49.6B	74.8	220	269	66.9	30.2	12.4	19.1	38.0B	38.0 B	10
11	17.8 B	25.3B	46.3B	70.7	201	274	44.6	24.6	12.0	17.7	40.0B	37.3 B	11
12	17.1 B	26.1B	34.7	68.8	195	292	29.9	19.0	11.8	22.9	77.3	37.0 B	12
13	21.1 B	25.0B	37.4	72.1	192	301	25.9	17.0	12.8	23.0	98.5	36.8 B	13
14	18.6 B	21.8B	48.1	73.5	188	285	23.1	16.2	12.7	21.6	89.0	36.5 B	14
15	21.0 B	20.6B	40.8	74.7	183	268	21.1	13.7	12.8	21.8	92.7	36.0 B	15
16	24.7 B	21.1B	40.7	78.4	178	238	19.3	11.6	12.6	25.1	91.3	34.9 B	16
17	19.5 B	20.3B	39.8	81.9	167	215	17.3	11.5	12.7	37.2	87.4	30.0 B	17
18	17.8 B	20.0B	37.3	83.5	157	214	13.6	12.7	12.5	40.6	82.7	24.0 B	18
19	16.2 B	25.6B	37.6	84.4	159	213	11.8	13.3	12.5	39.7	77.4B	16.9 B	19
20	17.7 B	30.3B	36.8	96.2	164	201	11.5	14.5	11.8	39.7	74.2B	14.7 B	20
21	14.7 B	32.1B	38.2	119	170	210	11.5	15.4	11.5	39.2	70.3B	14.4 B	21
22	19.3 B	32.7B	42.9	143	168	211	19.6	25.4	11.1	37.7	69.6B	8.64B	22
23	21.4 B	33.9B	40.8	163	164	206	21.5	26.5	9.91	36.9	62.8B	8.37B	23
24	23.1 B	35.1B	35.3	170	166	214	19.3	26.5	9.18	36.9	64.0B	8.80B	24
25	20.2 B	39.5B	33.6	173	207	227	22.1	26.7	8.25	35.6	36.3B	10.6 B	25
26	20.0 B	39.2B	38.5	174	406	220	29.9	27.5	7.62	35.0	21.4B	12.9 B	26
27	19.3 B	39.8B	39.2	181	512	198	104	28.1	7.50	34.3	21.0B	15.1 B	27
28	16.0 B	40.4B	38.6	183	463	184	104	28.5	7.23	36.7	21.0B	19.7 B	28
29	8.72B		38.0	176	424	170	91.4	26.8	7.58	38.6	22.5B	22.3 B	29
30	8.50B		37.9	162	558	142	79.4	24.4	7.55	37.9	23.0B	23.4 B	30
31	8.50B		38.2		670		71.8	21.8		38.6		21.8 B	31
TOTAL	559.42	737.6	1 273.7	3 054.4	7 690	8 921	1 602.9	915.8	397.32	837.68	1 606.8	807.51	TOTAL
MEAN	18.0	26.3	41.1	102	248	297	51.7	29.5	13.2	27.0	53.6	26.0	MEAN
MAX	30.0	40.4	49.6	183	670	631	115	64.3	24.8	40.6	98.5	41.0	MAX
MIN	8.50	12.0	33.6	41.2	149	142	11.5	11.5	7.23	7.43	21.0	8.37	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 77.8
MAXIMUM DAILY, 670 ON MAY 31
MINIMUM DAILY, 7.23 ON SEP 28
MAXIMUM INSTANTANEOUS,
685 AT 12:00 MST ON MAY 31

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 42 30 N
LONG 112 52 30 W
DRAINAGE AREA, 17 000 km²

B - ICE CONDITIONS

REGULATED SINCE 1910

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	48 300	JUL	138 000
FEB	63 700	AUG	79 100
MAR	110 000	SEP	34 300
APR	264 000	OCT	72 400
MAY	664 000	NOV	139 000
JUN	771 000	DEC	69 800

TOTAL DISCHARGE, 2 450 000 dam³

OLDMAN RIVER NEAR THE MOUTH - STATION NO. 05AG006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	41.9B	15.0B	48.8B	40.8	161	683	138	84.4	28.0	16.5	42.4	22.3 B	1
2	37.2B	13.0B	50.8B	42.0	148	642	113	74.2	25.9	17.0	42.2	23.5 B	2
3	33.8B	12.4B	54.0B	46.3	145	617	109	70.8	27.0	17.9	37.8	24.0 B	3
4	27.2B	12.8B	55.0B	49.4	157	569	106	67.9	29.0	18.7	41.5	24.0 B	4
5	22.0B	13.8B	54.5B	55.3	163	515	84.3	66.5	28.2	18.4	41.0B	27.0 B	5
6	23.0B	15.2B	59.2B	67.7	170	469	73.8	61.0	27.3	18.9	40.5B	30.0 B	6
7	24.0B	18.0B	60.0B	70.6	193	409	64.4	56.2	26.4	20.0	40.0B	31.9 B	7
8	25.5B	20.0B	58.0B	69.6	260	370	59.9	51.5	24.0	20.5	39.5B	34.0 B	8
9	26.0B	23.9B	57.5B	71.6	278	340	70.5	46.9	23.2	37.3	39.0B	36.0 B	9
10	25.5B	25.2B	56.9B	73.1	261	293	77.0	43.6	22.9	36.2	40.0B	37.1 B	10
11	25.0B	26.0B	56.0	73.9	221	274	72.3	40.0	21.5	31.4	44.0B	37.9 B	11
12	24.5B	26.2B	46.0	71.0	207	283	57.4	36.3	20.7	29.1	42.0B	37.8 B	12
13	25.5B	26.9B	34.9	67.3	200	306	39.4	31.1	20.3	27.1	69.4	36.0 B	13
14	27.0B	27.4B	37.9	69.7	194	308	32.2	27.2	21.0	31.4	104	33.8 B	14
15	28.0B	27.5B	57.3	71.5	188	288	29.4	25.2	21.4	30.0	96.8	31.7 B	15
16	27.5B	26.0B	61.7	72.0	182	271	27.9	24.6	21.5	28.9	100	27.9 B	16
17	26.0B	25.0B	49.9	75.2	177	242	27.3	23.1	20.9	28.3	99.2	25.9 B	17
18	21.0B	23.0B	49.9	78.9	164	226	26.3	20.5	21.4	35.0	96.5	23.4 B	18
19	18.4B	21.0B	47.4	81.1	155	226	25.2	20.6	20.9	44.9	91.5	20.0 B	19
20	20.0B	20.8B	42.8	81.6	158	221	22.8	22.7	20.4	44.9	76.0B	16.2 B	20
21	22.3B	20.9B	39.8	92.3	165	209	22.9	23.2	20.3	43.8	68.0B	13.0 B	21
22	26.5B	24.0B	40.5	114	168	219	23.2	22.6	19.9	43.5	60.0B	10.6 B	22
23	28.0B	26.9B	43.7	137	166	218	22.3	23.0	19.9	46.4	52.0B	9.50B	23
24	28.7B	30.0B	43.3	159	163	216	29.5	32.7	19.8	40.5	42.0B	9.00B	24
25	28.8B	31.5B	38.4	168	176	225	30.9	34.9	19.1	41.1	30.0B	8.80B	25
26	29.5B	33.5B	36.5	174	236	236	32.7	35.8	18.4	39.2	24.8B	9.50B	26
27	29.0B	39.0B	39.4	177	467	228	38.4	36.6	17.9	38.2	24.2B	10.0 B	27
28	28.0B	41.0B	42.7	182	517	203	94.5	37.1	16.6	37.9	22.4B	10.2 B	28
29	27.0B		40.9	180	454	185	114	35.7	16.7	38.1	22.0B	11.0 B	29
30	22.0B		41.0	174	451	167	105	33.9	16.5	42.0	22.2B	14.0 B	30
31	20.0B		40.5		614		91.8	30.3		42.4		15.9 B	31
TOTAL	818.8	665.9	1 485.2	2 885.9	7 359	9 658	1 861.9	1 240.1	657.0	1 001.5	1 590.9	701.90	TOTAL
MEAN	26.4	23.8	47.9	96.2	237	322	60.1	40.0	21.9	32.3	53.0	22.6	MEAN
MAX	41.9	41.0	61.7	182	614	683	138	84.4	29.0	44.9	104	37.9	MAX
MIN	18.4	12.4	34.9	40.8	145	167	22.3	20.5	16.5	16.5	22.0	8.80	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 82.0
MAXIMUM DAILY, 683 ON JUN 01
MINIMUM DAILY, 8.80B ON DEC 25
MAXIMUM INSTANTANEOUS,
690 AT 03:05 MST ON JUN 01

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 55 08 N
LONG 111 48 00 W
DRAINAGE AREA, 27 500 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	70 700	JUL	161 000
FEB	57 500	AUG	107 000
MAR	128 000	SEP	57 800
APR	249 000	OCT	66 500
MAY	636 000	NOV	137 000
JUN	834 000	DEC	60 600

TOTAL DISCHARGE, 2 580 000 dam³

OLDMAN RIVER NEAR WALDRON'S CORNER - STATION NO. 05AA023

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2.99B	2.46B	1.83B	6.02B	13.7	138	32.6	24.5	7.74	4.70	5.91	4.30B	1
2	2.90B	2.44B	1.87B	5.33B	15.8	125	30.4	24.4	7.52	4.79	5.41	3.70B	2
3	2.85B	2.45B	1.90B	6.43	18.4	112	28.4	22.4	7.35	4.77	4.29B	3.85B	3
4	2.86B	2.45B	1.92B	6.44	25.9	103	25.8	19.8	7.17	5.34	5.52B	4.50B	4
5	2.87B	2.46B	1.94B	5.61	37.8	88.5	23.1	18.0	6.94	21.1	5.59B	5.00B	5
6	2.88B	2.46B	1.97B	5.57	62.9	76.4	22.0	16.4	6.70	11.9	3.77B	6.02B	6
7	2.89B	2.45B	1.98B	5.79	57.7	71.2	23.4	15.0	6.45	8.11	4.71B	4.96B	7
8	2.90B	2.44B	1.97B	6.14	44.4	64.7	22.5	13.9	6.26	7.53	6.30	5.02B	8
9	2.92B	2.42B	1.92B	5.42B	36.7	59.9	20.1	13.1	6.15	7.12	6.35	5.30B	9
10	2.84B	2.40B	1.90B	4.20B	33.9	62.9	18.7	12.4	6.00	7.53	9.55	5.40B	10
11	2.80B	2.38B	1.91B	5.00B	31.4	64.4	17.6	11.9	5.89	6.80	22.5	5.34B	11
12	2.82B	2.36B	1.92B	5.55B	29.8	56.6	16.8	12.5	5.80	6.58	19.0	4.60B	12
13	2.83B	2.29B	1.94B	5.15	28.5	50.2	16.1	11.8	6.55	6.28	15.0	3.56B	13
14	2.90B	2.24B	2.00B	5.56	27.9	48.0	15.1	10.8	6.11	5.84	13.9	3.78B	14
15	2.74B	2.20B	2.02B	6.74	26.4	43.4	13.9	10.1	5.82	5.72	10.7	4.54B	15
16	2.67B	2.16B	2.03B	8.56	26.1	43.0	13.0	9.89	5.75	5.64	9.92	4.97B	16
17	2.60B	2.12B	2.09B	9.23	27.1	44.5	12.3	9.57	5.63	4.88	9.37	4.72B	17
18	2.59B	2.06B	2.12B	11.7	29.7	47.0	12.5	10.0	5.56	5.73	8.29	4.40B	18
19	2.60B	2.01B	2.17B	17.3	35.2	47.5	17.3	12.5	5.47	5.32	7.24	3.90B	19
20	2.61B	2.00B	2.20B	24.6	38.6	49.8	14.8	11.3	5.41	4.68	6.70	3.50B	20
21	2.61B	1.98B	2.16B	29.0	38.5	49.6	12.8	10.2	5.32	5.13	5.51	3.42B	21
22	2.63B	1.92B	2.14B	32.0	38.4	48.4	11.6	9.37	5.25	5.09	6.60B	3.40B	22
23	2.65B	1.88B	2.12B	30.4	42.6	50.5	11.0	9.77	5.18	4.68	6.50B	3.48B	23
24	2.66B	1.86B	2.14B	28.5	65.4	50.3	14.9	10.5	5.06	4.84	4.50B	3.57B	24
25	2.63B	1.83B	2.20B	26.3	206	49.4	28.1	10.6	5.00	4.86	3.80B	3.72B	25
26	2.61B	1.81B	2.29B	23.1	227	46.4	55.0	11.4	4.97	6.83	3.00B	3.87B	26
27	2.59B	1.79B	2.40B	20.0	169	43.1	46.3	10.0	4.91	6.55	2.80B	3.55B	27
28	2.56B	1.79B	2.61B	17.4 B	137	39.0	39.6	9.18	4.86	6.26	2.90B	3.35B	28
29	2.54B		3.53B	14.1 B	194	34.8	34.1	8.54	4.81	6.58	5.00B	3.20B	29
30	2.50B		4.76B	12.7	197	33.0	29.8	8.23	4.72	5.97	4.75B	3.07B	30
31	2.48B		5.82B		162		26.8	7.91		5.91		2.98B	31
TOTAL	84.42	61.11	71.77	389.84	2 124.8	1 840.5	706.4	395.96	176.32	203.06	225.38	128.97	TOTAL
MEAN	2.72	2.18	2.32	13.0	68.5	61.4	22.8	12.8	5.88	6.55	7.51	4.16	MEAN
MAX	2.99	2.46	5.82	32.0	227	138	55.0	24.5	7.74	21.1	22.5	6.02	MAX
MIN	2.48	1.79	1.83	4.20	13.7	33.0	11.0	7.91	4.72	4.68	2.80	2.98	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 17.5
MAXIMUM DAILY, 227 ON MAY 26
MINIMUM DAILY, 1.79B ON FEB 27
MAXIMUM INSTANTANEOUS,
243 AT 10:35 MST ON MAY 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 48 50 N
LONG 114 11 00 W
DRAINAGE AREA, 1 440 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	7 290	JUL	61 000
FEB	5 280	AUG	34 200
MAR	6 200	SEP	15 200
APR	33 700	OCT	17 500
MAY	184 000	NOV	19 500
JUN	159 000	DEC	11 100

TOTAL DISCHARGE, 554 000 dam³

ONETREE CREEK NEAR PATRICIA - STATION NO. 05CJ006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.424B	0.743B	0.080E	2.80	2.49	2.24	2.24	2.56	---	---	1
2	---	---	0.545B	0.779B	0.065E	3.08	2.70	2.59	2.23	2.34	---	---	2
3	---	---	0.449B	0.648	0.054A	3.45	3.45	2.58	2.45	2.34	---	---	3
4	---	---	0.437B	0.374	0.056E	3.27	3.30	2.72	2.56	2.18	---	---	4
5	---	---	0.374B	0.260A	0.060E	3.26	2.54	2.60	2.83	2.03	---	---	5
6	---	---	0.338B	0.220A	0.070E	2.86	3.35	2.58	2.89	2.09	---	---	6
7	---	---	0.380B	0.200A	0.140E	2.22	3.25	2.56	2.53	2.35	---	---	7
8	---	---	0.344B	0.190E	0.160	2.32	3.85	2.72	2.28	2.32	---	---	8
9	---	---	0.214B	0.170E	0.355	2.04	3.91	2.47	2.24	2.55	---	---	9
10	---	---	0.261B	0.190A	0.551	2.06	3.66	2.23	2.65	2.76	---	---	10
11	---	---	0.128B	0.198A	0.998	1.99	2.97	2.26	2.45	2.54	---	---	11
12	---	---	0.061B	0.194A	1.13	2.33	2.40	2.74	2.25	2.56	---	---	12
13	---	---	0.139B	0.180E	1.24	2.27	2.66	2.94	2.81	2.06	---	---	13
14	---	---	0.197B	0.169A	1.26	2.43	3.18	2.80	2.95	1.56	---	---	14
15	---	---	0.121B	0.170E	1.18	1.97	3.25	2.70	2.76	1.48	---	---	15
16	---	---	0.160B	0.150E	1.21	2.21	3.67	2.91	2.44	1.41	---	---	16
17	---	---	0.359B	0.130E	1.71	2.59	2.97	2.87	2.43	1.76	---	---	17
18	---	---	1.04 B	0.140E	2.33	2.18	2.48	3.10	2.22	1.47	---	---	18
19	---	---	0.826B	0.130E	2.52	1.80	2.62	3.61	2.20	1.22	---	---	19
20	---	---	0.865B	0.110E	2.43	2.31	2.68	4.11	2.36	1.04	---	---	20
21	---	---	0.815B	0.100E	2.36	2.36	3.41	3.76	1.96	0.903	---	---	21
22	---	---	0.681B	0.090E	1.97	1.96	3.65	2.62	1.90	0.815	---	---	22
23	---	---	0.577B	0.080E	2.16	1.78	3.82	2.37	1.98	0.777	---	---	23
24	---	---	0.429B	0.070E	2.74	2.02	2.55	2.92	2.08	0.750	---	---	24
25	---	---	0.333B	0.060E	5.39	2.30	2.12	2.71	2.25	0.786	---	---	25
26	---	---	0.327B	0.055E	4.11	2.47	2.92	2.58	2.25	0.711	---	---	26
27	---	0.329B	0.495B	0.060E	4.12	2.47	2.69	2.66	2.32	0.678	---	---	27
28	---	0.844B	1.01 B	0.070E	4.27	2.33	2.60	2.82	2.42	0.665	---	---	28
29	---		1.62 B	0.080E	3.68	2.54	2.78	2.76	2.44	0.610	---	---	29
30	---		1.03 B	0.090E	3.87	2.13	3.07	2.85	2.38	0.599	---	---	30
31	---		0.838B		3.78		2.25	2.71		0.555A		---	31
TOTAL	---	---	15.817	6.120	56.049	71.80	93.24	86.09	71.75	48.469	---	---	TOTAL
MEAN	---	---	0.510	0.204	1.81	2.39	3.01	2.78	2.39	1.56	---	---	MEAN
MAX	---	---	1.62	0.779	5.39	3.45	3.91	4.11	2.95	2.76	---	---	MAX
MIN	---	---	0.061	0.055	0.054	1.78	2.12	2.23	1.90	0.555	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.83
MAXIMUM DAILY, 5.39 ON MAY 25
MINIMUM DAILY, 0.054A ON MAY 03
MAXIMUM INSTANTANEOUS,
5.71 AT 21:27 MST ON MAY 25

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 44 00 N
LONG 111 41 15 W
DRAINAGE AREA, 496 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	8 060
FEB	---	AUG	7 440
MAR	1 370	SEP	6 200
APR	529	OCT	4 190
MAY	4 840	NOV	---
JUN	6 200	DEC	---

TOTAL DISCHARGE, 38 800 dam³

OWL RIVER BELOW PICHE RIVER - STATION NO. 07CA013

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.71B	2.76B	18.1A	15.9 A	7.54	3.23	---	---	---	---	1
2	---	---	1.77B	2.86B	18.1A	15.1 A	7.31	2.95	---	---	---	---	2
3	---	---	1.82B	3.27B	17.9A	14.5 A	7.72	2.57	---	---	---	---	3
4	---	---	1.87B	3.48B	17.9A	14.1	8.52	2.35	---	---	---	---	4
5	---	---	1.95B	4.03B	18.0	13.4 A	8.74	2.19	---	---	---	---	5
6	---	---	2.12B	4.50B	18.2	13.0 A	8.86	2.03	---	---	---	---	6
7	---	---	2.19B	4.73B	19.8	12.5	8.87	1.86	---	---	---	---	7
8	---	---	1.90B	4.37B	20.0A	12.1	8.78	1.69	---	---	---	---	8
9	---	---	1.87B	4.22B	20.3A	11.7 A	8.56	1.48	---	---	---	---	9
10	---	---	2.00B	4.28B	20.6A	11.5	8.40	1.33	---	---	---	---	10
11	---	---	1.84B	4.38B	21.1A	12.7	8.45	1.18	---	---	---	---	11
12	---	---	1.87B	4.60B	22.9A	12.5 A	8.35	1.14	---	---	---	---	12
13	---	---	1.90B	4.58B	23.5A	11.8	8.34	1.07	---	---	---	---	13
14	---	---	1.84B	4.58B	23.6A	11.6	7.88	0.990	---	---	---	---	14
15	---	---	1.90B	4.54B	22.6	11.6	7.59	0.990	---	---	---	---	15
16	---	---	2.05B	4.82B	22.5	11.6	7.19	0.982	---	---	---	---	16
17	---	---	1.98B	5.48B	22.3	11.6	6.75	1.02	---	---	---	---	17
18	---	---	2.00B	7.82B	22.3A	11.5	6.42	0.985	---	---	---	---	18
19	---	---	2.03B	9.13B	21.7	11.3	6.14	1.04	---	---	---	---	19
20	---	---	1.93B	11.5 B	21.3	11.2	6.00	1.09	---	---	---	---	20
21	---	---	1.85B	10.5	21.4	11.1	5.72	1.11	---	---	---	---	21
22	---	---	1.83B	10.3	21.2A	10.8	5.44	1.14	---	---	---	---	22
23	---	---	1.91B	10.8	21.1A	10.5	5.10	1.06 A	---	---	---	---	23
24	---	---	1.78B	13.0	20.5	10.0	4.91	---	---	---	---	---	24
25	---	---	1.70B	13.3	22.0	9.63	4.65	---	---	---	---	---	25
26	---	---	1.80B	13.7	19.9A	9.22	4.56	---	---	---	---	---	26
27	---	---	2.10B	14.4	19.8A	8.88	4.44	---	---	---	---	---	27
28	---	---	2.71B	15.3 A	19.7A	8.41	4.27	---	---	---	---	---	28
29	---	---	3.05B	16.3 A	18.7A	8.12	4.01	---	---	---	---	---	29
30	---		3.48B	17.1 A	18.2A	7.85	3.80	---	---	---	---	---	30
31	---		2.89B		17.6A		3.54	---		1.39B		---	31
TOTAL	---	---	63.82	234.63	632.8	345.71	206.85	---	---	---	---	---	TOTAL
MEAN	---	---	2.06	7.82	20.4	11.5	6.67	---	---	---	---	---	MEAN
MAX	---	---	3.48	17.1	23.6	15.9	8.87	---	---	---	---	---	MAX
MIN	---	---	1.70	2.76	17.6	7.85	3.54	---	---	---	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 23.6A ON MAY 14

MAXIMUM INSTANTANEOUS,
25.0 AT 20:16 MST ON MAY 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 00 39 N
LONG 111 51 16 W
DRAINAGE AREA, 3 080 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	17 900
FEB	---	AUG	---
MAR	5 510	SEP	---
APR	20 300	OCT	---
MAY	54 700	NOV	---
JUN	29 900	DEC	---

PADDLE RIVER AT BARRHEAD - STATION NO. 07BB006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	2.00B	8.65B	4.01	7.21	1.10	0.210	0.070	0.100	---	---	1
2	---	---	2.50B	8.45B	3.59	2.54	1.15	0.200	0.070	0.100	---	---	2
3	---	---	3.00B	7.23B	1.88	2.13	3.39	0.184	0.070	0.100	---	---	3
4	---	---	3.50B	6.15B	2.00	2.00	12.5	0.170	0.070	0.098	---	---	4
5	---	---	4.20B	6.55B	1.86	1.88	33.9	0.160	0.070	0.095	---	---	5
6	---	---	4.50B	5.88B	1.78	1.60	42.3	0.140	0.070	0.095	---	---	6
7	---	---	4.80B	4.85	2.13	1.88	43.1	0.140	0.075	0.095	---	---	7
8	---	---	12.2 B	4.36	1.80	2.19	40.1	0.140	0.080	0.100	---	---	8
9	---	---	11.9 B	4.17	2.29	2.03	23.2	0.140	0.085	0.105	---	---	9
10	---	---	12.7 B	3.65	2.45	1.85	17.4	0.130	0.090	0.105	---	---	10
11	---	---	8.51B	3.48	2.45	1.75	17.5	0.120	0.090	0.111	---	---	11
12	---	---	6.24B	3.46	2.20	2.41	27.9	0.110	0.090	0.117	---	---	12
13	---	---	6.45B	3.88	2.06	7.37	28.6	0.100	0.095	0.123	---	---	13
14	---	---	5.69B	3.89	1.96	12.8	22.9	0.090	0.095	0.128	---	---	14
15	---	---	5.42B	4.12	2.21	14.7	17.2	0.090	0.095	0.134	---	---	15
16	---	---	5.78B	4.32	2.30	13.3	16.3	0.088	0.095	0.140	---	---	16
17	---	---	6.55B	4.29	2.09	12.5	15.8	0.085	0.100	0.145	---	---	17
18	---	---	8.08B	4.19	2.01	11.4	14.5	0.083	0.100	0.145	---	---	18
19	---	---	8.48B	4.01	1.80	11.0	9.50	0.080	0.105	0.150	---	---	19
20	---	---	8.25B	4.13	1.60	10.7	2.93	0.078	0.110	0.150	---	---	20
21	---	---	7.28B	4.43	1.60	10.2	0.377	0.075	0.111	0.155	---	---	21
22	---	---	5.67B	4.50	2.16	9.82	0.206	0.071	0.111	0.160	---	---	22
23	---	---	5.40B	4.74	2.88	9.44	0.146	0.068	0.112	0.158	---	---	23
24	---	---	5.05B	5.27	3.23	9.14	0.169	0.064	0.112	0.156	---	---	24
25	---	---	4.50B	4.87	6.91	8.57	0.146	0.060	0.113	0.154	---	---	25
26	---	---	3.86B	4.87	10.8	6.93	0.085	0.057	0.113	0.152	---	---	26
27	---	---	3.97B	4.87	11.4	6.46	0.053	0.053	0.110	0.149	---	---	27
28	---	---	3.69B	4.78	11.2	4.81	0.055	0.050	0.106	0.147	---	---	28
29	---	---	4.44B	4.40	10.5	1.40	0.087	0.051	0.103	0.145	---	---	29
30	---		5.26B	4.21	10.1	1.19	0.220	0.057	0.100	0.143A	---	---	30
31	---		6.94B		9.76		0.215	0.065		0.140E		---	31
TOTAL	---	---	186.81	146.67	125.01	191.20	393.029	3.209	2.816	3.995	---	---	TOTAL
MEAN	---	---	6.03	4.89	4.03	6.37	12.7	0.104	0.094	0.129	---	---	MEAN
MAX	---	---	12.7	8.65	11.4	14.7	43.1	0.210	0.113	0.160	---	---	MAX
MIN	---	---	2.00	3.46	1.60	1.19	0.053	0.050	0.070	0.095	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.30
MAXIMUM DAILY, 43.1 ON JUL 07
MINIMUM DAILY, 0.050 ON AUG 28
MAXIMUM INSTANTANEOUS,
43.6 AT 06:20 MST ON JUL 08

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 06 45 N
LONG 114 23 55 W
DRAINAGE AREA, 2 380 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1984

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	34 000
FEB	---	AUG	277
MAR	16 100	SEP	243
APR	12 700	OCT	345
MAY	10 800	NOV	---
JUN	16 500	DEC	---

TOTAL DISCHARGE, 91 000 dam³

PADDLE RIVER AT HIGHWAY NO. 764 - STATION NO. 07BB013

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	5.113	4.499	4.453	4.224	3.963	3.967	3.908	---	---	1
2	---	---	---	4.886	4.361	4.297	4.227	3.953	3.953	3.907	---	---	2
3	---	---	---	4.798	4.308	4.255	4.425	3.950	3.991	3.910	---	---	3
4	---	---	---	4.726	4.307	4.249	6.161	3.949	3.962	3.910	---	---	4
5	---	---	---	4.646	4.288	4.225	7.132	3.945	3.940	3.927	---	---	5
6	---	---	---	4.595	4.301	4.220	7.136	3.940	3.928	3.931	---	---	6
7	---	---	---	4.545	4.273	4.286	7.176	3.937	3.919	3.940	---	---	7
8	---	---	5.780A	4.543	4.313	4.278	6.410	3.935	3.919	3.954	---	---	8
9	---	---	5.680	4.491	4.328	4.262	5.826	3.932	3.919	3.957	---	---	9
10	---	---	5.422	4.471	4.344	4.250	5.572	3.928	3.929	3.976	---	---	10
11	---	---	5.253	4.454	4.319	4.251	6.174	3.916	3.936	3.980	---	---	11
12	---	---	5.180	4.473	4.298	4.560	6.490	3.912	3.956	3.999	---	---	12
13	---	---	5.146	4.494	4.285	5.052	6.441	3.913	3.949	4.028	---	---	13
14	---	---	5.139	4.502	4.294	5.403	5.823	3.912	3.944	4.029	---	---	14
15	---	---	5.144	4.530	4.300	5.403	5.743	3.913	3.942	4.014	---	---	15
16	---	---	5.152	4.553	4.289	5.267	5.700	3.920	3.947	4.019	---	---	16
17	---	---	5.179	4.522	4.276	5.206	5.636	3.945	3.959	4.015	---	---	17
18	---	---	5.198	4.518	4.264	5.146	5.321	3.930	3.957	4.031	---	---	18
19	---	---	5.208	4.507	4.230	5.136	4.785	3.916	3.978	4.041	---	---	19
20	---	---	5.163	4.528	4.216	5.097	4.280	3.970	4.036	4.027	---	---	20
21	---	---	5.250	4.558	4.225	5.060	4.223	3.962	4.020	4.043	---	---	21
22	---	---	5.334	4.545	4.338	5.031	4.190	3.929	4.010	4.046	---	---	22
23	---	---	5.342	4.537	4.343	5.014	4.169	3.927	4.021	4.032	---	---	23
24	---	---	5.233	4.577	4.423	4.991	4.174	3.942	4.037	4.063	---	---	24
25	---	---	5.133	4.572	5.034	4.871	4.107	3.925	4.033	4.062	---	---	25
26	---	---	5.058	4.594	5.117	4.788	4.024	3.920	4.039	4.070	---	---	26
27	---	---	4.979	4.584	5.164	4.780	3.993	3.913	4.045	4.041	---	---	27
28	---	---	4.987	4.556	5.101	4.364	3.988	3.923	3.950	3.972	---	---	28
29	---		4.971	4.531	5.055	4.246	3.978	3.924	3.929	3.972	---	---	29
30	---		5.014	4.512	5.011	4.233	3.976	3.920	3.911	4.005A	---	---	30
31	---		5.191		4.989		3.973	3.958		---		---	31
MEAN	---	---	---	4.582	4.480	4.689	5.144	3.933	3.968	---	---	---	MEAN
MAX	---	---	---	5.113	5.164	5.403	7.176	3.970	4.045	---	---	---	MAX
MIN	---	---	---	4.454	4.216	4.220	3.973	3.912	3.911	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 7.176 ON JUL 07

MAXIMUM INSTANTANEOUS,
7.249 AT 13:00 MST ON JUL 05

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 02 54 N
LONG 114 40 12 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

DRAINAGE AREA,
1 720 km²

PADDLE RIVER NEAR ANSELMO - STATION NO. 07BB011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.600B	2.47 B	1.21	1.52	0.289	0.197	0.433	0.145	---	---	1
2	---	---	0.980B	2.32 B	1.17	1.21	0.416	0.181	0.330	0.154	---	---	2
3	---	---	1.06 B	2.73 B	1.12	0.990	19.0	0.149	0.263	0.152	---	---	3
4	---	---	1.08 B	2.50 B	1.26	1.07	46.8	0.138	0.216	0.165	---	---	4
5	---	---	1.11 B	1.80 B	1.13	2.60	14.8	0.132	0.160	0.173	---	---	5
6	---	---	1.15 B	1.45 B	1.26	2.90	6.90	0.122	0.143	0.202	---	---	6
7	---	---	1.03 B	1.15 B	1.07	1.77	6.08	0.119	0.130	0.187	---	---	7
8	---	---	0.860B	1.00 B	1.19	1.53	3.67	0.105	0.130	0.195	---	---	8
9	---	---	0.760B	0.900B	1.45	1.35	2.42	0.106	0.173	0.230	---	---	9
10	---	---	0.680B	0.850B	1.35	1.09	1.90	0.081	0.152	0.248	---	---	10
11	---	---	0.630B	0.805B	1.21	1.44	1.35	0.087	0.168	0.266	---	---	11
12	---	---	0.590B	0.797B	1.20	9.99	1.04	0.080	0.273	0.274	---	---	12
13	---	---	0.560B	1.03 B	1.03	13.4	0.842	0.091	0.435	0.276	---	---	13
14	---	---	0.650B	1.83 B	1.00	9.24	0.702	0.081	0.318	0.262	---	---	14
15	---	---	0.710B	1.71 B	1.04	4.51	0.571	0.083	0.324	0.245	---	---	15
16	---	---	0.800B	1.92 B	1.02	2.65	0.493	0.095	0.316	0.229	---	---	16
17	---	---	0.900B	1.51 B	0.961	1.74	0.478	0.118	0.528	0.217	---	---	17
18	---	---	0.930B	1.45	0.998	1.30	0.435	0.181	0.654	0.231	---	---	18
19	---	---	0.970B	1.74	1.03	0.981	0.396	0.140	0.480E	0.222	---	---	19
20	---	---	1.00 B	1.89	0.972	0.714	0.381	0.116	0.370E	0.220	---	---	20
21	---	---	0.750B	1.95	1.24	0.500	0.358	0.104	0.300E	0.214	---	---	21
22	---	---	0.600B	1.85	1.41	0.404	0.321	0.114	0.260E	0.211	---	---	22
23	---	---	0.400B	1.87	1.25	0.334	0.272	0.126	0.240E	0.207	---	---	23
24	---	---	0.280B	2.06	1.17	0.220A	0.237	0.108	0.202E	0.228	---	---	24
25	---	---	0.230B	1.97	3.20	0.210E	0.212	0.117	0.180E	0.229	---	---	25
26	---	---	0.190B	1.79	4.89	0.208E	0.204	0.119	0.160E	0.246	---	---	26
27	---	---	0.600B	1.51	3.08	0.205A	0.197	0.211	0.140E	0.256	---	---	27
28	---	---	0.792B	1.37	2.14	0.400	0.196	0.232	0.109A	0.262	---	---	28
29	---	---	1.34 B	1.23	1.78	0.420	0.191	0.149	0.130	0.250	---	---	29
30	---		2.23 B	1.26	1.54	0.349	0.180	0.145	0.147	0.244	---	---	30
31	---		2.97 B		1.52		0.182	0.343		0.249A		---	31
TOTAL	---	---	27.432	48.712	45.891	65.245	111.513	4.170	7.864	6.889	---	---	TOTAL
MEAN	---	---	0.885	1.62	1.48	2.17	3.60	0.135	0.262	0.222	---	---	MEAN
MAX	---	---	2.97	2.73	4.89	13.4	46.8	0.343	0.654	0.276	---	---	MAX
MIN	---	---	0.190	0.797	0.961	0.205	0.180	0.080	0.109	0.145	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.30
MAXIMUM DAILY, 46.8 ON JUL 04
MINIMUM DAILY, 0.080 ON AUG 12
MAXIMUM INSTANTANEOUS,
71.2 AT 03:21 MST ON JUL 04

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 51 29 N
LONG 115 21 45 W
DRAINAGE AREA, 261 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	9 630
FEB	---	AUG	360
MAR	2 370	SEP	679
APR	4 210	OCT	595
MAY	3 960	NOV	---
JUN	5 640	DEC	---

TOTAL DISCHARGE, 27 400 dam³

PADDLE RIVER NEAR ROCHFORT BRIDGE - STATION NO. 07BB004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.43B	2.52	1.41	0.749	1.41	0.065	0.063	0.066	0.066A	---	1
2	---	---	1.43B	2.53	0.568	0.765	1.38	0.064	0.062	0.067	---	---	2
3	---	---	1.43B	2.52	0.569	0.751	1.41	0.066	0.062	0.066	---	---	3
4	---	---	1.43B	2.53	0.575	0.759	1.60	0.067	0.062	0.068	---	---	4
5	---	---	3.50B	2.53	0.584	0.777	12.1	0.073	0.062	0.069	---	---	5
6	---	---	6.01B	2.52	0.576	0.776	26.7	0.077	0.067	0.067	---	---	6
7	---	---	5.99B	2.53	0.577	0.994	17.4	0.078	0.083	0.068	---	---	7
8	---	---	5.89B	2.49	0.571	1.28	8.23	0.074	0.086	0.068	---	---	8
9	---	---	4.73B	2.51	0.575	1.37	8.24	0.064	0.086	0.067	---	---	9
10	---	---	2.66	2.51	0.572	1.38	15.3	0.064	0.096	0.069	---	---	10
11	---	---	2.62	2.51	0.581	2.99	25.3	0.064	0.097	0.068	---	---	11
12	---	---	2.62	2.50	0.582	5.52	24.6	0.065	0.095	0.068	---	---	12
13	---	---	2.63	2.50	0.592	6.35	16.1	0.064	0.097	0.067	---	---	13
14	---	---	2.61	2.50	0.607	6.92	14.0	0.066	0.097	0.067	---	---	14
15	---	---	2.59	2.51	0.620	7.44	13.8	0.065	0.097	0.068	---	---	15
16	---	---	2.59	2.51	0.628	7.64	13.6	0.068	0.100	0.067	---	---	16
17	---	---	2.59	2.53	0.622	7.54	11.6	0.065	0.104	0.068	---	---	17
18	---	---	2.59	2.56	0.627	7.48	5.59	0.065	0.116	0.090	---	---	18
19	---	---	2.58	2.55	0.641	7.49	0.711	0.146	0.116	0.088	---	---	19
20	---	---	2.56	2.54	0.665	7.51	0.362	0.063	0.117	0.065	---	---	20
21	---	---	2.55	2.53	0.678	7.37	0.312	0.063	0.120	0.065	---	---	21
22	---	---	2.54	2.51	0.696	7.40	0.271	0.071	0.118	0.065	---	---	22
23	---	---	2.52	2.49	1.23	7.36	0.218	0.065	0.119	0.065	---	---	23
24	---	---	2.53	2.47	6.45	6.63	0.107	0.064	0.122	0.065	---	---	24
25	---	---	2.50	2.44	6.69	5.76	0.059	0.063	0.105	0.066	---	---	25
26	---	---	2.48	2.44	6.59	5.67	0.056	0.065	0.064	0.067	---	---	26
27	---	---	2.49	2.40	6.60	3.12	0.059	0.063	0.065	0.065	---	---	27
28	---	---	2.49	2.43	6.56	1.54	0.066	0.063	0.065	0.067	---	---	28
29	---	---	2.49	2.44	6.54	1.49	0.065	0.062	0.065	0.065	---	---	29
30	---		2.52	2.44	6.54	1.45	0.066	0.068	0.065	0.066	---	---	30
31	---		2.50		2.64		0.065	0.066		0.066		---	31
TOTAL	---	---	88.09	75.00	63.956	124.271	220.777	2.136	2.673	2.113	---	---	TOTAL
MEAN	---	---	2.84	2.50	2.06	4.14	7.12	0.069	0.089	0.068	---	---	MEAN
MAX	---	---	6.01	2.56	6.69	7.64	26.7	0.146	0.122	0.090	---	---	MAX
MIN	---	---	1.43	2.40	0.568	0.749	0.056	0.062	0.062	0.065	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.36
MAXIMUM DAILY, 26.7 ON JUL 06
MINIMUM DAILY, 0.056 ON JUL 26
MAXIMUM INSTANTANEOUS,
30.0 AT 16:52 MST ON JUL 06

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 53 44 N
LONG 115 02 27 W
DRAINAGE AREA, 625 km²

B - ICE CONDITIONS

REGULATED SINCE 1984

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	19 100
FEB	---	AUG	185
MAR	7 610	SEP	231
APR	6 480	OCT	183
MAY	5 530	NOV	---
JUN	10 700	DEC	---

TOTAL DISCHARGE, 50 000 dam³

PADDLE RIVER NEAR SANGUDO - STATION NO. 07BB012

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	3.381	3.083	2.898	2.889	2.553	2.546	2.475	2.535A	---	1
2	---	---	---	3.346	2.895	2.878	2.897	2.544	2.600	2.478	---	---	2
3	---	---	---	3.250	2.886	2.857	3.474	2.541	2.578	2.480	---	---	3
4	---	---	---	3.236	2.888	2.849	5.274	2.538	2.521	2.482	---	---	4
5	---	---	3.860	3.188	2.880	2.845	5.612	2.543	2.491	2.498	---	---	5
6	---	---	---	3.161	2.884	2.886	5.514	2.534	2.476	2.513	---	---	6
7	---	---	4.505	3.133	2.863	2.924	5.393	2.522	2.470	2.514	---	---	7
8	---	---	4.343	3.142	2.871	2.926	4.346	2.513	2.486	2.502	---	---	8
9	---	---	4.190	3.084	2.889	2.921	4.135	2.500	2.511	2.528	---	---	9
10	---	---	3.737	3.079	2.898	2.903	4.064	2.520	2.520	2.522	---	---	10
11	---	---	3.652	3.073	2.880	2.923	4.964	2.529	2.534	2.540	---	---	11
12	---	---	3.622	3.120	2.870	3.362	4.902	2.534	2.564	2.581	---	---	12
13	---	---	3.597	3.123	2.856	3.860	4.718	2.532	2.538	2.591	---	---	13
14	---	---	3.602	3.151	2.846	4.050	4.289	2.535	2.536	2.572	---	---	14
15	---	---	3.612	3.181	2.840	3.956	4.246	2.530	2.540	2.554	---	---	15
16	---	---	3.632	3.187	2.841	3.827	4.210	2.544	2.531	2.548	---	---	16
17	---	---	3.651	3.160	2.845	3.772	4.157	---	2.568	2.554	---	---	17
18	---	---	3.639	3.142	2.833	3.736	3.712	2.517A	2.588	2.548	---	---	18
19	---	---	3.596	3.152	2.822	3.728	3.136	2.475	2.647	2.545	---	---	19
20	---	---	3.455	3.174	2.822	3.700	2.867	---	2.640	2.559	---	---	20
21	---	---	3.298	3.180	2.882	3.671	2.851	2.491A	2.615	2.566	---	---	21
22	---	---	3.422	3.173	2.937	3.645	2.835	2.487	2.601	2.549	---	---	22
23	---	---	3.611	3.151	2.957	3.624	2.833	2.537	2.604	2.537	---	---	23
24	---	---	3.348	3.152	3.142	3.602	2.811	2.479	2.584	2.556	---	---	24
25	---	---	3.085	3.163	3.662	3.429	2.697	2.451	2.567	2.565	---	---	25
26	---	---	3.066	3.168	3.709	3.401	2.621	2.462	2.578	2.547	---	---	26
27	---	---	3.069	3.166	3.733	3.308	2.606	2.483	2.571	2.535	---	---	27
28	---	---	3.095	3.134	3.670	2.908	2.591	2.469	2.529	2.521	---	---	28
29	---		3.146	3.115	3.633	2.897	2.585	2.457	2.498	2.530	---	---	29
30	---		3.286	3.100	3.609	2.895	2.594	2.477	2.481	2.525	---	---	30
31	---		3.413		3.458		2.575	2.562		2.529		---	31
MEAN	---	---	---	3.165	3.061	3.306	3.693	---	2.550	2.534	---	---	MEAN
MAX	---	---	---	3.381	3.733	4.050	5.612	---	2.647	2.591	---	---	MAX
MIN	---	---	---	3.073	2.822	2.845	2.575	---	2.470	2.475	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 5.612 ON JUL 05

MAXIMUM INSTANTANEOUS
5.884 AT 23:52 MST ON JUL 04

WATER LEVELS ARE REFERRED TO ASSUMED DATUM
APPLY 648.969 m ADJUSTMENT TO CONVERT TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 57 26 N
LONG 114 53 35 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1984

DRAINAGE AREA,
1 170 km²

PADDLE RIVER RESERVOIR NEAR ROCHFORT BRIDGE - STATION NO. 07BB914

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	696.662	696.603	696.684	695.493	695.412	695.508	695.237	695.368	695.427	695.468	695.765	695.873	1
2	696.663	696.600	696.688	695.566	695.483	695.556	695.211	695.369	695.451	695.468	695.776	695.872	2
3	696.659	696.597	696.799	695.609	695.504	695.606	695.788	695.363	695.475	695.468	695.787	695.870	3
4	696.654	696.596	696.933	695.611	695.555	695.659	698.613	695.365	695.489	695.474	695.798	695.871	4
5	696.644	696.595	697.071	695.607	695.606	695.721	700.919	695.371	695.496	695.485	695.808	695.873	5
6	696.638	696.594	697.027	695.606	695.657	695.798	701.067	695.374	695.502	695.496	695.811	695.876	6
7	696.631	696.593	696.882	695.595	695.704	695.920	700.717	695.372	695.509	695.506	695.812	695.878	7
8	696.611	696.592	696.706	695.571	695.748	695.985	700.707	695.370	695.513	695.518	695.814	695.878	8
9	696.597	696.589	696.564	695.531	695.804	696.030	700.692	695.368	695.509	695.533	695.815	695.878	9
10	696.596	696.586	696.488	695.477	695.876	696.074	700.497	695.366	695.504	695.549	695.817	695.878	10
11	696.586	696.583	696.415	695.424	695.930	696.109	699.818	695.364	695.499	695.565	695.820	695.877	11
12	696.592	696.580	696.343	695.365	695.979	696.358	698.988	695.361	695.496	695.581	695.822	695.873	12
13	696.594	696.577	696.272	695.314	696.024	697.029	698.236	695.358	695.493	695.596	695.820	695.868	13
14	696.592	696.567	696.206	695.272	696.054	697.639	697.642	695.356	695.490	695.604	695.825	695.874	14
15	696.598	696.567	696.143	695.252	696.096	697.857	697.071	695.353	695.487	695.609	695.827	695.877	15
16	696.598	696.567	696.080	695.248	696.115	697.868	696.488	695.350	695.494	695.617	695.828	695.881	16
17	696.599	696.567	696.022	695.242	696.167	697.773	695.896	695.347	695.506	695.631	695.830	695.884	17
18	696.612	696.565	695.982	695.236	696.197	697.602	695.508	695.342	695.510	695.643	695.831	695.888	18
19	696.628	696.562	695.943	695.240	696.229	697.387	695.394	695.335	695.510	695.654	695.833	695.891	19
20	696.619	696.559	695.920	695.249	696.263	697.150	695.401	695.332	695.510	695.663	695.835	695.891	20
21	696.617	696.556	695.899	695.259	696.301	696.897	695.398	695.338	695.510	695.673	695.840	695.889	21
22	696.615	696.555	695.861	695.271	696.352	696.619	695.394	695.345	695.506	695.683	695.845	695.886	22
23	696.613	696.575	695.789	695.301	696.405	696.342	695.390	695.352	695.501	695.692	695.849	695.883	23
24	696.611	696.601	695.715	695.334	696.403	696.073	695.386	695.358	695.496	695.703	695.854	695.880	24
25	696.609	696.628	695.639	695.368	696.221	695.812	695.382	695.362	695.492	695.714	695.859	695.876	25
26	696.607	696.655	695.556	695.395	696.148	695.581	695.379	695.366	695.489	695.725	695.864	695.872	26
27	696.605	696.679	695.481	695.405	696.094	695.390	695.378	695.372	695.486	695.736	695.863	695.870	27
28	696.603	696.686	695.416	695.415	695.971	695.347	695.377	695.382	695.483	695.743	695.867	695.868	28
29	696.601		695.364	695.416	695.805	695.318	695.375	695.392	695.478	695.747	695.871	695.864	29
30	696.599		695.367	695.406	695.611	695.277	695.375	695.403	695.471	695.751	695.871	695.862	30
31	696.600		695.412		695.476		695.373	695.410		695.756		695.860	31
MEAN	696.615	696.592	696.151	695.403	695.941	696.310	697.068	695.363	695.493	695.615	695.829	695.876	MEAN
MAX	696.663	696.686	697.071	695.611	696.405	697.868	701.067	695.410	695.513	695.756	695.871	695.891	MAX
MIN	696.586	696.555	695.364	695.236	695.412	695.277	695.211	695.332	695.427	695.468	695.765	695.860	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 696.019
MAXIMUM DAILY, 701.067 ON JUL 06
MINIMUM DAILY, 695.211 ON JUL 02
MAXIMUM INSTANTANEOUS,
701.179 AT 00:28 MST ON JUL 06

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 53 36 N
LONG 115 04 03 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED SINCE 1986

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

PAINTEARTH CREEK NEAR HALKIRK - STATION NO. 05FC004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.904B	0.009	0.011	0.005	0.051	0.004	0.001	---	---	1
2	---	---	0.005B	0.603B	0.009	0.611	0.205	0.085	0.005	0.001	---	---	2
3	---	---	0.280B	0.442	0.006	0.640	4.04	0.044	0.006	0.001	---	---	3
4	---	---	0.734B	0.346	0.003	0.858	9.47	0.045	0.006	0.001	---	---	4
5	---	---	1.01 B	0.246	0.001	1.41	4.64	0.023	0.004	0.001	---	---	5
6	---	---	1.25 B	0.140	0.001	0.739	3.00	0.011	0.001	0.001	---	---	6
7	---	---	1.58 B	0.075	0.001	0.477	14.4	0.004	0.001	0.001	---	---	7
8	---	---	2.36 B	0.101	0.002	0.333	15.7	0.001	0.001	0.001	---	---	8
9	---	---	3.19 B	0.071	0.006	0.203	3.04	0.001	0.001	0.001	---	---	9
10	---	---	3.08 B	0.029	0.005	0.076	1.88	0.001	0.001	0.001	---	---	10
11	---	---	2.47 B	0.021	0.003	0.019	1.35	0.001	0.001	0.001	---	---	11
12	---	---	1.75 B	0.098	0.002	0.230	1.00	0.001	0.001	0.001	---	---	12
13	---	---	0.800B	0.092	0.001	1.22	0.997	0.001	0.001	0.001	---	---	13
14	---	---	0.498B	0.018	0.001	2.04	0.794	0.001	0.002	0.001	---	---	14
15	---	---	0.430B	0.002	0.001	1.66	0.668	0.001	0.003	0.001	---	---	15
16	---	---	0.554B	0.006	0.001	1.31	0.677	0.001	0.004	0.001	---	---	16
17	---	---	0.972B	0.016	0.001	1.17	0.674	0.001	0.005	0.001	---	---	17
18	---	---	1.52 B	0.014	0.001	1.00	0.623	0.001	0.005	0.001	---	---	18
19	---	---	3.03 B	0.009	0.001	0.820	0.639	0.001	0.005	0.001	---	---	19
20	---	---	4.59 B	0.005	0.001	0.601	0.453	0.001	0.005	0.001	---	---	20
21	---	OB	3.39 B	0.001	0.001	0.464	0.311	0.001	0.005	0.001	---	---	21
22	---	OB	1.07 B	0.002	0.001	0.320	0.214	0.001	0.005	0.001	---	---	22
23	---	OB	0.400B	0.003	0.001	0.216	0.122	0.001	0.005	0.001	---	---	23
24	---	OB	0.420B	0.001	0.006	0.148	0.063	0.001	0.003	0.001	---	---	24
25	---	OB	0.445B	0.001	0.047	0.132	0.033	0.002	0.001	0.001	---	---	25
26	---	OB	0.521B	0.001	0.036	0.123	0.022	0.003	0.001	0.001	---	---	26
27	---	OB	0.781B	0.001	0.032	0.114	0.024	0.002	0.001	0.001	---	---	27
28	---	OB	1.26 B	0.002	0.029	0.096	0.034	0.001	0.001	0.001	---	---	28
29	---		2.00 B	0.004	0.017	0.061	0.100	0.001	0.001	0.001	---	---	29
30	---		1.85 B	0.008	0.012	0.017	0.081	0.001	0.001	0.001A	---	---	30
31	---		1.36 B		0.010		0.050	0.002		0.001E		---	31
TOTAL	---	---	43.600	3.262	0.248	17.119	65.309	0.292	0.086	0.031	---	---	TOTAL
MEAN	---	---	1.41	0.109	0.008	0.571	2.11	0.009	0.003	0.001	---	---	MEAN
MAX	---	---	4.59	0.904	0.047	2.04	15.7	0.065	0.006	0.001	---	---	MAX
MIN	---	---	0	0.001	0.001	0.011	0.005	0.001	0.001	0.001	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.530
MAXIMUM DAILY, 15.7 ON JUL 08
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
21.2 AT 23:49 MST ON JUL 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 23 00 N
LONG 112 08 00 W
DRAINAGE AREA, 190 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	5 640
FEB	---	AUG	25.2
MAR	3 770	SEP	7.43
APR	282	OCT	2.68
MAY	21.4	NOV	---
JUN	1 480	DEC	---

TOTAL DISCHARGE, 11 200 dam³

PARFLESH CREEK NEAR CHANCELLOR - STATION NO. 05BM007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0	0.007	0	0	0	0	0	0	---	---	1
2	---	---	0	0.005	0	0	0	0	0	0	---	---	2
3	---	---	0	0.003	0	0	0	0	0	0	---	---	3
4	---	---	0	0.002	0	0	0	0	0	0	---	---	4
5	---	---	0	0.001	0	0	0	0	0	0	---	---	5
6	---	---	0	0.002	0	0	0	0	0	0	---	---	6
7	---	---	0	0.002	0	0	0	0	0	0	---	---	7
8	---	---	0	0.001	0	0	0	0	0	0	---	---	8
9	---	---	0.313	0.001	0	0	0	0	0	0	---	---	9
10	---	---	0.362	0.001	0	0	0	0	0	0	---	---	10
11	---	---	0.275	0.001	0	0	0	0	0	0	---	---	11
12	---	---	0.098	0	0	0	0	0	0	0	---	---	12
13	---	---	0.071A	0	0	0	0	0	0	0	---	---	13
14	---	---	0.050E	0	0	0	0	0	0	0	---	---	14
15	---	---	0.037A	0	0	0	0	0	0	0	---	---	15
16	---	---	0.030E	0	0	0	0	0	0	0	---	---	16
17	---	---	0.025E	0	0	0	0	0	0	0	---	---	17
18	---	---	0.050E	0	0	0	0	0	0	0	---	---	18
19	---	---	1.02 A	0	0	0	0	0	0	0	---	---	19
20	---	---	1.26	0	0	0	0	0	0	0	---	---	20
21	---	---	0.663	0	0	0	0	0	0	0	---	---	21
22	---	---	0.395	0	0	0	0	0	0	0	---	---	22
23	---	0A	0.213	0	0	0	0	0	0	0	---	---	23
24	---	0	0.109	0	0	0	0	0	0	0	---	---	24
25	---	0	0.075	0	0	0	0	0	0	0	---	---	25
26	---	0	0.054	0	0	0	0	0	0	0	---	---	26
27	---	0	0.041	0	0	0	0	0	0	0	---	---	27
28	---	0	0.027	0	0	0	0	0	0	0	---	---	28
29	---		0.018	0	0	0	0	0	0	0	---	---	29
30	---		0.013	0	0	0	0	0	0	0	---	---	30
31	---		0.010		0		0	0		0A		---	31
TOTAL	---	---	5.209	0.026	0	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.168	0.001	0	0	0	0	0	0	---	---	MEAN
MAX	---	---	1.26	0.007	0	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.021
MAXIMUM DAILY, 1.26 ON MAR 20
MINIMUM DAILY, 0 ON MAR 01
MAXIMUM INSTANTANEOUS,
1.42 AT 08:41 MST ON MAR 20

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 59 40 N
LONG 112 50 27 W
DRAINAGE AREA, 129 km²
A - MANUAL GAUGE
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	450	SEP	0
APR	2.25	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 452 dam³

PARLBY CREEK AT ALIX - STATION NO. 05CD007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.017B	7.82	0.810	0.501	0.290	0.139	0.022	0.001	---	---	1
2	---	---	0.018B	7.21	0.856	0.613	0.296	0.123	0.018	0.001	---	---	2
3	---	---	0.020B	6.14	0.844	0.747	0.490	0.137	0.021	0.001	---	---	3
4	---	---	0.021B	5.11	0.814	0.918	0.768	0.094	0.015	0.002	---	---	4
5	---	---	0.024B	4.10	0.771	1.03	1.08	0.071	0.011	0.002	---	---	5
6	---	---	0.057B	3.15	0.711	1.15	2.10	0.038	0.008	0.002	---	---	6
7	---	---	0.094B	2.46	0.674	1.30	3.89	0.021	0.007	0.001	---	---	7
8	---	---	0.106B	2.10	0.614A	1.45	5.60	0.013	0.005	0.001	---	---	8
9	---	---	0.098B	1.85	0.558A	1.49	5.09	0.012	0.004	0.017	---	---	9
10	---	---	0.128B	1.62	0.528	1.35	4.31	0.013	0.003	0.022	---	---	10
11	---	---	0.138B	1.47	0.478	1.19	3.64	0.031	0.003	0.016	---	---	11
12	---	---	0.082B	1.33	0.433	1.18	2.97	0.063	0.002	0.038	---	---	12
13	---	---	0.115B	1.20	0.401	1.30	2.34	0.072	0.002	0.215	---	---	13
14	---	---	0.158B	1.10	0.425	1.58	1.81	0.080	0.002	0.118	---	---	14
15	---	---	0.225B	1.04	0.472	2.30	1.44	0.084	0.037	0.097	---	---	15
16	---	---	0.244B	1.01	0.528	2.53	1.26	0.088	0.025	0.031	---	---	16
17	---	---	0.286B	0.859A	0.545	2.50	1.14	0.123	0.005	0.020	---	---	17
18	---	---	0.435B	0.775	0.557	2.01	1.01	0.235	0.002	0.016	---	---	18
19	---	---	0.544B	0.739	0.554	1.50	0.913	0.263	0.002	0.015	---	---	19
20	---	---	1.08 B	0.714	0.510	1.17	0.822	0.245	0.002	0.015	---	---	20
21	---	---	1.92 B	0.693	0.551	0.935	0.724	0.217	0.001	0.015	---	---	21
22	---	0.024B	2.08 B	0.664	0.652	0.806	0.627	0.187	0.001	0.017	---	---	22
23	---	0.028B	2.18 B	0.655	0.668	0.686	0.531	0.153	0.001	0.017	---	---	23
24	---	0.027B	2.75 B	0.710	0.666	0.570	0.439	0.126	0.001	0.016	---	---	24
25	---	0.026B	3.21 B	0.830	0.675	0.483	0.392	0.131	0.001	0.015	---	---	25
26	---	0.024B	2.54 B	0.947	0.655	0.418	0.408	0.128	0.001	0.014	---	---	26
27	---	0.021B	2.01 B	0.978	0.690	0.440	0.491	0.117	0.001	0.015	---	---	27
28	---	0.019B	1.73 B	0.971	0.650	0.402	0.432	0.086	0.001	0.014	---	---	28
29	---		1.66 B	0.920	0.576	0.370	0.335	0.061	0.001	0.013	---	---	29
30	---		1.19 B	0.847	0.518	0.323	0.244	0.036	0.001	0.012A	---	---	30
31	---		5.02		0.500		0.186	0.025		0.012E		---	31
TOTAL	---	---	32.392	60.012	18.884	33.242	46.068	3.212	0.206	0.791	---	---	TOTAL
MEAN	---	---	1.04	2.00	0.609	1.11	1.49	0.104	0.007	0.026	---	---	MEAN
MAX	---	---	5.02	7.82	0.856	2.53	5.60	0.263	0.037	0.215	---	---	MAX
MIN	---	---	0.017	0.655	0.401	0.323	0.186	0.012	0.001	0.001	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.795
MAXIMUM DAILY, 7.82 ON APR 01
MINIMUM DAILY, 0.001 ON SEP 21
MAXIMUM INSTANTANEOUS,
8.01 AT 07:35 MST ON APR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 24 27 N
LONG 113 11 43 W
DRAINAGE AREA, 515 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 980
FEB	---	AUG	278
MAR	2 800	SEP	17.8
APR	5 190	OCT	68.3
MAY	1 630	NOV	---
JUN	2 870	DEC	---

TOTAL DISCHARGE, 16 800 dam³

PARLBY CREEK NEAR MIRROR - STATION NO. 05CD902

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.474B	2.20	0.512	0.452	0.754	0.054	0.002	0.023A	---	1
2	---	---	---	0.551A	1.88	1.10	0.368	0.758	0.035	0	---	---	2
3	---	---	---	0.563	1.80	1.18	0.895	0.737	0.022	0	---	---	3
4	---	---	---	0.608	1.77	1.44	1.38	0.663	0.011	0	---	---	4
5	---	---	---	0.669	1.70	1.94	1.07	0.589	0.006	0	---	---	5
6	---	---	---	0.711	1.56	2.22	1.04	0.517	0.003	0	---	---	6
7	---	---	---	0.749	1.49	1.87	1.54	0.459	0	0	---	---	7
8	---	---	---	0.786	1.08	1.69	1.57	0.409	0	0	---	---	8
9	---	---	---	0.841	0.820	1.61	1.86	0.384	0	0	---	---	9
10	---	---	---	1.09	0.774	1.43	2.16	0.343	0	0	---	---	10
11	---	---	---	1.05	0.769	1.57	2.29	0.304	0.001	0.010	---	---	11
12	---	---	---	3.93	0.759	2.07	2.43	0.249	0.004	0.037	---	---	12
13	---	---	---	5.94	0.778	2.55	2.52	0.185	0.007	0.033	---	---	13
14	---	---	---	5.58	0.817	2.36	2.58	0.159	0.009	0.030	---	---	14
15	---	---	0 B	5.03	0.799	2.19	2.57	0.141	0.008	0.028	---	---	15
16	---	---	---	4.62	0.779	2.09	2.73	0.140	0.007	0.033	---	---	16
17	---	---	---	5.05	0.767	2.11	2.71	0.134	0.006	0.067	---	---	17
18	---	---	---	5.49	0.748	2.05	2.51	0.134	0.005	0.055	---	---	18
19	---	---	---	4.90	0.749	1.94	2.26	0.139	0.003	0.034	---	---	19
20	---	---	---	5.36	0.735	1.84	1.99	0.153	0.001	0.018	---	---	20
21	---	---	---	5.65	0.728	1.69	1.76	0.143	0	0.010	---	---	21
22	---	---	---	5.06	1.55	1.51	1.53	0.146	0	0.011	---	---	22
23	---	---	---	5.33	1.74	1.29	1.33	0.140	0	0.009	---	---	23
24	---	---	---	5.30	1.17	1.14	1.19	0.132	0	0.011	---	---	24
25	---	---	---	4.59	1.34	0.981	1.10	0.122	0.011	0.018	---	---	25
26	---	---	---	4.04	0.872	0.965	1.18	0.120	0.013	0.017	---	---	26
27	---	---	0.400B	3.49	0.732	0.925	1.19	0.150	0.002	0.017	---	---	27
28	---	---	0.400B	3.28	0.643	0.834	1.07	0.133	0.054	0.028	---	---	28
29	---	---	0.400B	2.84	0.587	0.692	0.939	0.120	0.039	0.024	---	---	29
30	---		0.400B	2.39	0.598	0.556	0.837	0.114	0.017	0.028	---	---	30
31	---		0.397B		0.572		0.743	0.081		0.023		---	31
TOTAL	---	---	---	95.962	33.306	46.345	49.794	8.752	0.318	0.543	---	---	TOTAL
MEAN	---	---	---	3.20	1.07	1.54	1.61	0.282	0.011	0.018	---	---	MEAN
MAX	---	---	---	5.94	2.20	2.55	2.73	0.758	0.054	0.067	---	---	MAX
MIN	---	---	---	0.474	0.572	0.512	0.368	0.081	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 5.94 ON APR 13
MINIMUM DAILY, 0B ON MAR 15
MAXIMUM INSTANTANEOUS,
6.32 AT 14:17 MST ON APR 20

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 28 50 N
LONG 113 06 40 W
DRAINAGE AREA, 843 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	4 300
FEB	---	AUG	756
MAR	---	SEP	27.5
APR	8 290	OCT	46.9
MAY	2 880	NOV	---
JUN	4 000	DEC	---

PEACE RIVER AT DUNVEGAN BRIDGE - STATION NO. 07FD003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	1 750	3 380	1 560	1 040	1 140E	1 330	1 520A	---	1
2	---	---	---	---	1 650	4 500	1 110	973A	1 010E	1 420	1 520A	---	2
3	---	---	---	---	1 720	5 010	1 240	781A	1 000E	1 550	1 670	---	3
4	---	---	---	---	1 500	4 010	1 440	735A	1 000E	1 570	1 760	---	4
5	---	---	---	---	1 500	3 370	1 620	700E	1 070E	1 520	1 860	---	5
6	---	---	---	---	1 510	3 220	1 600	670E	1 130E	1 580	1 890	---	6
7	---	---	---	---	1 570	2 830	1 670	660E	1 100E	1 580	1 890	---	7
8	---	---	---	---	1 810	2 950	1 500	697A	1 200E	1 550	1 920	---	8
9	---	---	---	---	2 420	2 790	1 230	1 050	885E	1 570	1 900	---	9
10	---	---	---	---	2 370	2 700	1 160	1 150	945E	1 610	1 880A	---	10
11	---	---	---	---	2 150	2 350	1 270	1 270	1 140E	1 650	1 830	---	11
12	---	---	---	---	2 200	4 550A	1 310	1 060	1 580E	1 480	1 700	---	12
13	---	---	---	---	1 990	7 600A	1 580	844	1 490E	1 670	1 510	---	13
14	---	---	---	---	1 590	7 180A	1 530	1 040	1 550E	1 680	1 170	---	14
15	---	---	---	---	1 750	5 400A	1 390	901	1 560E	1 690	1 210	---	15
16	---	---	---	---	2 020	3 990A	1 170	932	1 590E	1 670	1 390	---	16
17	---	---	---	---	2 050	3 180	1 010	1 170	1 560E	1 620	1 400	---	17
18	---	---	---	---	2 250	2 650	1 120	1 160	1 450A	1 580	1 380	---	18
19	---	---	---	---	2 210	2 730	1 090	1 010	1 240	1 570	1 380	---	19
20	---	---	---	---	2 350	2 240	1 120	642A	1 250	1 590	1 490	---	20
21	---	---	---	---	1 860	1 990A	1 120	673A	1 240	1 530	1 510A	---	21
22	---	---	---	---	2 290	1 940A	1 090	740E	1 340	1 690	1 500A	---	22
23	---	---	---	1 500A	2 400	1 900	1 030	800E	1 320	1 570	---	---	23
24	---	---	---	1 790	2 280	1 670	929	860E	1 280	1 650	---	---	24
25	---	---	---	2 030	2 500	1 470	1 020	830E	1 300	1 650A	---	---	25
26	---	---	---	2 110	2 050	1 570	1 120	760E	1 230	1 650A	---	---	26
27	---	---	---	2 020	2 450	1 870	1 190	600E	1 190	1 690A	---	---	27
28	---	---	---	1 930	3 050	1 820	1 180	580E	1 410	1 690	---	---	28
29	---	---	---	1 940	3 000	1 800	1 200	935E	1 420	1 540	---	---	29
30	---		---	1 760	2 850	1 680	873	1 200E	1 400	1 490	---	---	30
31	---		---		2 960		889	1 210E		1 560A		---	31
TOTAL	---	---	---	---	66 050	94 240	38 361	27 673	38 220	49 160	---	---	TOTAL
MEAN	---	---	---	---	2 130	3 140	1 240	893	1 270	1 590	---	---	MEAN
MAX	---	---	---	---	3 050	7 600	1 670	1 270	1 590	1 690	---	---	MAX
MIN	---	---	---	---	1 500	1 470	873	580	885	1 330	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1 700
MAXIMUM DAILY, 7 600A ON JUN 13
MINIMUM DAILY, 580E ON AUG 25
MAXIMUM INSTANTANEOUS,
7 830 AT 18:30 MST ON JUN 13

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 53 09 N
LONG 118 36 19 W
DRAINAGE AREA, 130 000 km²
A - MANUAL GAUGE

E - ESTIMATED
REGULATED SINCE 1967

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	3 310 000
FEB	---	AUG	2 390 000
MAR	---	SEP	3 300 000
APR	---	OCT	4 250 000
MAY	5 710 000	NOV	---
JUN	8 140 000	DEC	---

TOTAL DISCHARGE, 27 100 000 dam³

REMARKS - STARTING NOV 01 1989, WATER LEVELS FOR WINTER PERIOD ARE COLLECTED

PEACE RIVER AT FORT VERMILION - STATION NO. 07HF001

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	4.741	4.961	5.006	6.418	5.174	3.824A	2.666	3.672	---	---	1
2	---	---	4.652	5.185	4.903	6.444	5.106	3.680	2.966	3.737	---	---	2
3	---	---	4.544	5.606	4.776	6.880	5.013	3.485	3.345	3.726	---	---	3
4	---	---	4.481	5.930A	4.694	7.532	4.856	3.479	3.499	3.684	---	---	4
5	---	---	4.501	6.061	4.672	7.808	4.609	3.523	3.497	3.662	---	---	5
6	---	---	4.563	6.021	4.692	7.588	4.530	3.434	3.410	3.743	---	---	6
7	---	---	4.633	5.946	4.628	7.210	4.785	3.266	3.346	3.834	---	---	7
8	---	---	4.712	5.990	4.577	7.006	5.089	3.199A	3.346	3.850	---	---	8
9	---	---	4.741	6.072	4.604	6.768	5.124A	3.173A	3.396	3.845	---	---	9
10	---	---	4.654	6.057	4.687	6.509	5.180A	3.149A	3.441	3.853	---	---	10
11	---	---	4.527	5.929	4.948	6.315	5.142A	3.135A	3.451	3.854	---	---	11
12	---	---	4.500	5.740	5.277	6.183	4.894A	3.169A	3.478	3.875	---	---	12
13	---	---	4.489	5.530	5.331	6.139	4.695	3.370	3.323	3.885	---	---	13
14	---	---	4.424	5.355	5.217	8.307	4.559	3.536	3.227	3.908	---	---	14
15	---	---	4.359	5.338	5.117	9.965	4.525	3.575	3.413	3.887	---	---	15
16	---	---	4.313	5.480	4.961A	10.00	4.624	3.416	3.730	3.882	---	---	16
17	---	---	4.233	5.655	4.731	9.160	4.694	3.281	3.831	3.948	---	---	17
18	---	---	4.132	5.706	4.662	8.336	4.590	3.305	3.869	3.984	---	---	18
19	---	---	4.100	5.685	4.765	7.905	4.350	3.276	3.897	3.983	---	---	19
20	---	---	4.103	5.785	4.855	7.527	4.085	3.355	3.905	3.948	---	---	20
21	---	---	4.085	5.924	4.959	7.160	3.958A	3.501	3.883	3.910	---	---	21
22	---	4.615A	4.053	6.214	5.055	6.837	3.904A	3.510	3.811	3.891	---	---	22
23	---	4.567	4.087	7.127	5.132	6.404	3.848A	3.319	3.713	3.860	---	---	23
24	---	4.510	4.164	6.626	5.063	6.035	3.811A	3.108A	3.639	3.847	---	---	24
25	---	4.514	4.189	6.227	5.160	5.773	3.780A	3.088A	3.620	3.879	---	---	25
26	---	4.592	4.274	5.688	5.312	5.617	3.693A	3.115A	3.633	3.874	---	---	26
27	---	4.702	4.481	5.446A	5.362	5.458	3.604A	3.139A	3.609	3.868	---	---	27
28	---	4.766	4.667	5.275A	5.446	5.270	3.563A	3.155A	3.582	3.912	---	---	28
29	---		4.831	5.202	5.544	5.187	3.635A	3.085	3.573	3.910	---	---	29
30	---		4.945	5.123	6.066	5.208	3.739A	2.927	3.593	3.946	---	---	30
31	---		4.961		6.388		3.791A	2.731		3.972A		---	31
MEAN	---	---	4.456	5.763	5.051	6.965	4.418	3.300	3.523	3.859	---	---	MEAN
MAX	---	---	4.961	7.127	6.388	10.00	5.180	3.824	3.905	3.984	---	---	MAX
MIN	---	---	4.053	4.961	4.577	5.187	3.563	2.731	2.666	3.662	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 10.002 ON JUN 16

MAXIMUM INSTANTANEOUS,
10.169 AT 00:00 MST ON JUN 16

WATER LEVELS ARE REFERRED TO ASSUMED DATUM
APPLY 243.508 m ADJUSTMENT TO CONVERT TO GEODETIC SURVEY OF CANADA DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 23 15 N
LONG 116 02 05 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1967

DRAINAGE AREA,
223 000 km²

PEACE RIVER AT PEACE POINT - STATION NO. 07KC001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 400B	1 800B	1 670B	1 600B	3 840B	4 020	2 980	1 570	1 150	1 470	1 580B	1 080B	1
2	1 500B	1 760B	1 680B	1 710B	3 780B	4 470	2 950	1 600	1 070	1 470	1 580B	1 080B	2
3	1 540B	1 710B	1 690B	1 810B	3 630B	4 680	2 950	1 650	981	1 480	1 590B	1 030B	3
4	1 590B	1 660B	1 700B	1 900B	3 330B	4 950	2 950	1 640	978	1 520	1 600B	990B	4
5	1 640B	1 610B	1 650B	1 950B	3 090B	5 470	2 900	1 560	1 100	1 560	1 590B	980B	5
6	1 680B	1 560B	1 600B	1 980B	2 990B	6 790	2 800	1 490	1 280	1 560	1 580B	1 000B	6
7	1 700B	1 500B	1 550B	2 020B	3 000B	7 340	2 620	1 470	1 370	1 550	1 570B	1 150B	7
8	1 710B	1 450B	1 520B	2 100B	3 070	7 020	2 480	1 430	1 390	1 560	1 600B	1 310B	8
9	1 680B	1 430B	1 540B	2 200B	3 060	6 470	2 560	1 380	1 370	1 590	1 690B	1 460B	9
10	1 620B	1 400B	1 570B	2 240B	3 050	5 950	2 800	1 290	1 340	1 620	1 700B	1 580B	10
11	1 560B	1 410B	1 600B	2 260B	3 080	5 470	2 950	1 230	1 340	1 650	1 820B	1 640B	11
12	1 520B	1 420B	1 620B	2 290B	3 170	5 130	3 010	1 190	1 360	1 680	1 920B	1 690B	12
13	1 500B	1 430B	1 610B	2 300B	3 360	4 800	3 030	1 170	1 390	1 680	1 960B	1 760B	13
14	1 520B	1 450B	1 580B	2 280B	3 620	4 620	2 870	1 170	1 410	1 680	1 960B	1 850B	14
15	1 550B	1 500B	1 540B	2 200B	3 730	6 900	2 640	1 210	1 400	1 700	2 010B	1 950B	15
16	1 600B	1 600B	1 510B	2 140B	3 660	11 400	2 450	1 320	1 330	1 710	2 150B	2 070B	16
17	1 650B	1 700B	1 470B	2 100B	3 520	12 600	2 360	1 410	1 300	1 720	2 290B	2 160B	17
18	1 690B	1 800B	1 430B	2 090B	3 330	11 900	2 390	1 420	1 410	1 710	2 310B	2 200B	18
19	1 730B	1 800B	1 380B	2 140B	3 130	10 300	2 470	1 370	1 550	1 710	2 220B	2 220B	19
20	1 740B	1 780B	1 340B	2 210B	2 970	8 400	2 450	1 320	1 630	1 750	2 100B	2 210B	20
21	1 720B	1 750B	1 300B	2 300B	2 940	6 960	2 300	1 290	1 670	1 780	1 950B	2 180B	21
22	1 700B	1 710B	1 270B	2 450B	2 980	6 080	2 110	1 300	1 710	1 760	1 760B	2 140B	22
23	1 690B	1 680B	1 220B	2 620B	3 060	5 510	1 930	1 330	1 710	1 740	1 550B	2 090B	23
24	1 680B	1 700B	1 170B	2 950B	3 140	5 020	1 860	1 410	1 680	1 730	1 390B	2 020B	24
25	1 670B	1 700B	1 150B	3 300B	3 170	4 510	1 820	1 410	1 620	1 700	1 250B	1 950B	25
26	1 680B	1 680B	1 160B	3 800B	3 160	4 060	1 770	1 310	1 560	1 670	1 150B	1 880B	26
27	1 690B	1 670B	1 190B	4 200B	3 190	3 730	1 730	1 180	1 530	1 660B	1 080B	1 790B	27
28	1 700B	1 660B	1 250B	4 000B	3 310	3 490	1 680	1 120	1 520	1 650B	1 030B	1 720B	28
29	1 750B		1 320B	3 950B	3 410	3 300	1 630	1 120	1 510	1 630B	1 040B	1 660B	29
30	1 780B		1 420B	3 890B	3 500	3 110	1 560	1 150	1 480	1 610B	1 050B	1 650B	30
31	1 800B		1 520B		3 610		1 530	1 180		1 590B		1 690B	31
TOTAL	50 980	45 320	45 220	74 980	101 880	184 350	74 530	41 690	42 139	50 890	50 070	52 180	TOTAL
MEAN	1 640	1 620	1 460	2 500	3 290	6 150	2 400	1 340	1 400	1 640	1 670	1 680	MEAN
MAX	1 800	1 800	1 700	4 200	3 840	12 600	3 030	1 650	1 710	1 780	2 310	2 220	MAX
MIN	1 400	1 400	1 150	1 600	2 940	3 110	1 530	1 120	978	1 470	1 030	980	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2 230
MAXIMUM DAILY, 12 600 ON JUN 17
MINIMUM DAILY, 978 ON SEP 04
MAXIMUM INSTANTANEOUS,
12 700 AT 16:23 MST ON JUN 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 59 06 50 N
LONG 112 25 35 W
DRAINAGE AREA, 293 000 km²

B - ICE CONDITIONS

REGULATED SINCE 1968

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	4 400 000	JUL	6 440 000
FEB	3 920 000	AUG	3 600 000
MAR	3 910 000	SEP	3 640 000
APR	6 480 000	OCT	4 400 000
MAY	8 800 000	NOV	4 330 000
JUN	15 900 000	DEC	4 510 000

TOTAL DISCHARGE, 70 300 000 dam³

PEACE RIVER AT PEACE RIVER - STATION NO. 07HA001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 430B	1 610B	1 380B	1 560B	2 100	5 090	2 610	1 340	1 360	1 520	1 690	1 860B	1
2	1 440	1 620B	1 420B	1 360B	2 110	6 070	2 220	1 370	1 310	1 470	1 670	1 850B	2
3	1 320	1 620B	1 450B	1 120B	2 080	6 670	2 090	1 200	1 190	1 600	1 680	1 870B	3
4	1 500B	1 710B	1 520B	1 450B	2 010	5 900	2 250	1 080	1 180	1 710	1 800	1 810B	4
5	1 570B	1 700B	1 550B	1 700B	1 880	4 920	2 830	984	1 200	1 690	1 830	1 890B	5
6	1 620B	1 760B	1 440B	1 600B	1 960	5 060	2 830	865	1 290	1 650	1 910	2 000B	6
7	1 630B	1 920B	1 100B	1 430B	1 980	4 500	2 780	810	1 310	1 730	1 930	1 780B	7
8	1 590B	1 960B	1 420B	1 400B	2 250	4 240	2 960	888	1 270	1 710	1 940	1 780B	8
9	1 580B	2 030B	1 290B	1 370B	2 780	4 070	2 670	1 190	1 360	1 710	1 920	1 800B	9
10	1 590B	2 080B	1 130B	1 230B	2 960	3 980	2 310	1 360	1 040	1 720	1 930	1 730B	10
11	1 600B	1 880B	1 120B	1 580B	2 800	3 760	2 340	1 410	1 100	1 790	1 890	1 730B	11
12	1 610B	1 830B	1 150B	1 810B	2 620	6 160	2 250	1 430	1 290	1 770	1 830	1 730B	12
13	1 620B	1 840B	1 170B	1 970	2 650	16 100	2 300	1 170	1 720	1 670	1 710	1 740B	13
14	1 630B	1 730B	1 080B	1 840	2 260	16 500	2 470	1 100	1 630	1 840	1 410	1 740B	14
15	1 630B	1 760B	1 180B	1 450	2 120	11 200	2 360	1 230	1 690	1 820	1 170	1 730B	15
16	1 650B	1 790B	1 040B	1 650	2 490	7 970A	2 080	1 100	1 700	1 810	1 350	1 720B	16
17	1 650B	1 860B	895B	1 710	2 520	6 370A	1 750	1 230	1 720	1 790	1 490	1 710	17
18	1 690B	1 820B	832B	1 720	2 650	5 450	1 690	1 390	1 690	1 730	1 480	1 720	18
19	1 680B	1 720B	908B	1 560	2 730	4 690	1 710	1 300	1 620	1 700	1 500	1 750B	19
20	1 750B	1 600B	1 010B	1 210	2 870	4 400	1 610	1 060	1 530	1 700	1 570	1 800B	20
21	1 890B	1 590E	965B	1 430	2 800	3 630A	1 600	813	1 480	1 630	1 640	1 810B	21
22	1 860B	1 600B	1 180B	1 800	2 710	3 520	1 610	856	1 510	1 750	1 610	1 820B	22
23	1 820B	1 610B	1 560B	2 030	3 130	3 300	1 450	919	1 540	1 750	1 570	1 850B	23
24	1 900B	1 610B	1 540B	2 080	3 060	3 260	1 360	1 040	1 500	1 710	1 280	1 850B	24
25	1 880B	1 540B	1 630B	2 450	3 120	3 000	1 400	1 040	1 440	1 760	1 220	1 870B	25
26	1 860B	1 430B	1 740B	2 640	3 200	2 810	1 430	914	1 470	1 780	1 330	1 840B	26
27	1 800B	1 370B	1 560B	2 770	3 280	2 930	1 570	802	1 480	1 770	1 560	1 890B	27
28	1 770B	1 330B	1 380B	2 590	4 170	2 920	1 570	678	1 580	1 830	1 670B	1 900B	28
29	1 740B		1 470B	2 460	4 280	2 870	1 630	721	1 540	1 750	1 680B	1 830B	29
30	1 670B		1 560B	2 380	4 230A	2 700	1 460	1 090	1 510	1 650	1 740B	1 900B	30
31	1 620B		1 640B		4 290A		1 190	1 350		1 670		1 900B	31
TOTAL	51 590	47 920	40 310	53 350	86 090	164 040	62 380	33 730	43 250	53 180	49 000	56 200	TOTAL
MEAN	1 660	1 710	1 300	1 780	2 780	5 470	2 010	1 090	1 440	1 720	1 630	1 810	MEAN
MAX	1 900	2 080	1 740	2 770	4 290	16 500	2 960	1 430	1 720	1 840	1 940	2 000	MAX
MIN	1 320	1 330	832	1 120	1 880	2 700	1 190	678	1 040	1 470	1 170	1 710	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2 030
MAXIMUM DAILY, 16 500 ON JUN 14
MINIMUM DAILY, 678 ON AUG 28
MAXIMUM INSTANTANEOUS,
18 500 AT 22:00 MST ON JUN 13

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 14 41 N
LONG 117 18 46 W
DRAINAGE AREA, 186 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED SINCE 1967

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	4 460 000	JUL	5 390 000
FEB	4 140 000	AUG	2 910 000
MAR	3 480 000	SEP	3 740 000
APR	4 610 000	OCT	4 590 000
MAY	7 440 000	NOV	4 230 000
JUN	14 200 000	DEC	4 860 000

TOTAL DISCHARGE, 64 100 000 dam³

PEACE RIVER BELOW CHENAL DES QUATRE FOURCHES - STATION NO. 07KC005

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	209.254	209.354	207.772A	207.233	207.405	207.082	---	1
2	---	---	---	207.694E	---	209.184	209.264	207.669	207.163	207.473	207.099	---	2
3	---	---	---	207.769E	---	209.073	209.258	207.790	207.087	207.475	207.143	---	3
4	---	---	---	207.834E	---	209.010	209.176	207.807	206.996	207.477	207.250	---	4
5	---	---	---	207.913E	---	208.915	209.107	207.790	207.043	207.477	207.242	---	5
6	---	---	---	208.044E	---	208.580	209.040	207.768	207.152	207.436	207.251	---	6
7	---	---	---	208.236E	---	---	208.955	207.587	207.188	207.430	207.281	---	7
8	---	---	207.783A	208.394E	---	---	208.835	207.570	207.283	207.384	207.473	---	8
9	---	---	207.803	208.503E	---	---	208.785	207.629	207.370	207.352	207.594	---	9
10	---	---	207.832	---	208.610A	---	208.824	207.583	207.380	207.441	207.455	---	10
11	208.291A	---	207.858	208.556	---	---	208.926	207.501	207.394	207.488	207.724	---	11
12	208.228	---	207.871	208.586	---	---	208.997	207.384	207.423	207.555	208.037	208.402A	12
13	208.166	---	207.854	208.613	---	---	208.962	207.261	207.376	207.620	---	208.436	13
14	208.119	---	207.812	208.629	---	209.697	208.876	207.223	207.375	207.535	---	208.490	14
15	208.098	---	207.755	208.608	208.985A	209.540A	208.871	207.247	207.374	207.469	---	208.536	15
16	208.111	---	207.691	208.551	209.054	---	208.816	207.384	207.342	207.477	---	208.573	16
17	208.115	---	207.651	208.490	209.042	---	208.723	207.501	207.275	207.493	---	208.619	17
18	208.260	---	---	208.435	209.007	---	208.692	207.539	207.230	207.481	---	---	18
19	208.361	---	---	208.385	208.985	211.578A	208.721	207.513	207.399	207.465	---	---	19
20	---	---	---	208.404	208.954	211.013	208.720	207.472	207.488	207.416	---	---	20
21	---	---	---	208.440	208.940	210.698	208.683	207.437	207.535	207.400	---	---	21
22	---	---	---	208.500	208.932	210.552	208.577	207.464	207.546	207.433	---	---	22
23	---	---	---	208.570	208.960	210.404	208.450	207.413	207.590	207.380	---	---	23
24	208.175A	---	---	208.727	209.012	210.215	208.366	207.391	207.612	207.309	---	---	24
25	---	---	---	209.257	209.084	210.053	208.277	207.426	207.561	207.276	---	---	25
26	---	---	---	209.441	209.129	209.883	208.213	207.455	207.510	207.238	---	---	26
27	---	---	---	209.691	209.211	209.767	208.161	207.366	207.495	207.135	---	---	27
28	---	---	---	---	209.278	209.662	208.135	207.260	207.442	207.080	---	---	28
29	---		---	---	209.328	209.526	---	207.210	207.367	207.049	---	---	29
30	---		---	---	209.400	209.439	---	207.248	207.388	207.067	---	---	30
31	---		---		209.404		---	207.270		207.080		---	31
MEAN	---	---	---	---	---	---	---	207.482	207.354	207.380	---	---	MEAN
MAX	---	---	---	---	---	---	---	207.807	207.612	207.620	---	---	MAX
MIN	---	---	---	---	---	---	---	207.210	206.996	207.049	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 54 00 N
LONG 111 35 00 W

A - MANUAL GAUGE
E - ESTIMATED

REGULATED SINCE 1967

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

PEAVINE CREEK NEAR FALHER - STATION NO. 07GH004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	18.0 B	0.261	0.009	0.002	0.001	0	0	---	---	1
2	---	---	0 B	14.2 A	0.183	0.006	0.002	0	0	0	---	---	2
3	---	---	0 B	8.46	0.151	0.004	0.002	0	0	0	---	---	3
4	---	---	0 B	5.86	0.134	0.003	0.002	0	0	0	---	---	4
5	---	---	0 B	3.58	0.106	0.003	0.002	0	0	0	---	---	5
6	---	---	0 B	2.68	0.096	0.002	0.002	0	0	0	---	---	6
7	---	---	0 B	1.84	0.102	0.002	0.002	0	0	0	---	---	7
8	---	---	0 B	1.11	0.088	0.002	0.002	0	0	0	---	---	8
9	---	---	0.001B	0.590	0.077	0.002	0.002	0	0	0	---	---	9
10	---	---	0.004B	0.509	0.070	0.001	0.002	0	0	0	---	---	10
11	---	---	0.002B	0.470	0.070	0.134	0.002	0	0	0	---	---	11
12	---	---	0.001B	0.386	0.066	3.38	0.001	0	0	0	---	---	12
13	---	---	0.001B	0.434	0.065	3.76	0.001	0	0	0	---	---	13
14	---	---	0.007B	0.480	0.051	2.44	0.001	0	0	0	---	---	14
15	---	---	0.038B	0.429	0.043	1.66	0.001	0	0	0	---	---	15
16	---	---	1.67 B	0.396	0.045	1.09	0.001	0	0	0	---	---	16
17	---	---	3.44 B	0.322	0.044	0.659	0.001	0	0	0	---	---	17
18	---	---	5.63 B	0.278	0.038	0.359	0.001	0	0	0	---	---	18
19	---	---	9.04 B	0.251	0.034	0.202	0.001	0	0	0	---	---	19
20	---	---	4.15 B	0.240	0.040	0.120	0.001	0	0	0	---	---	20
21	---	---	2.10 B	0.201	0.042	0.080	0.001	0	0	0	---	---	21
22	---	---	1.48 B	0.176	0.029	0.060	0.001	0	0	0	---	---	22
23	---	---	2.07 B	0.162	0.027	0.029	0.001	0	0	0	---	---	23
24	---	---	1.68 B	0.151	0.023	0.020	0.001	0	0	0	---	---	24
25	---	---	1.29 B	0.169	0.022	0.010	0.001	0	0	0	---	---	25
26	---	---	0.819B	0.226	0.021	0.006	0.001	0	0	0.023	---	---	26
27	---	0B	1.41 B	0.325	0.020	0.005	0.001	0	0	0.061	---	---	27
28	---	0B	3.60 B	0.447	0.016	0.004	0.001	0	0	0.043	---	---	28
29	---		9.47 B	0.348	0.011	0.003	0.001	0	0	0.042A	---	---	29
30	---		19.1 B	0.296	0.011	0.003	0.001	0	0	0.040E	---	---	30
31	---		21.6 B		0.011		0.001	0		0.035E		---	31
TOTAL	---	---	88.603	63.016	1.997	14.058	0.042	0.001	0	0.244	---	---	TOTAL
MEAN	---	---	2.86	2.10	0.064	0.469	0.001	0	0	0.008	---	---	MEAN
MAX	---	---	21.6	18.0	0.261	3.76	0.002	0.001	0	0.061	---	---	MAX
MIN	---	---	0	0.151	0.011	0.001	0.001	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.606
MAXIMUM DAILY, 21.6B ON MAR 31
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS
23.3B AT 04:30 MST ON MAR 31

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 37 41 N
LONG 117 15 29 W
DRAINAGE AREA, 537 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3.63
FEB	---	AUG	0.086
MAR	7 660	SEP	0
APR	5 440	OCT	21.1
MAY	173	NOV	---
JUN	1 210	DEC	---

TOTAL DISCHARGE, 14 500 dam³

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARK

PEERLESS LAKE NEAR PEERLESS LAKE - STATION NO. 07JB001

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	25.298	25.271	25.271A	25.335	25.431	25.374	25.296	25.223	---	---	1
2	---	---	25.297	25.271	---	25.338	25.431	25.370	25.302	25.222	---	---	2
3	---	---	25.296	25.270	---	25.335	25.433	25.349	25.299	25.226	---	---	3
4	---	---	25.296	25.270	---	25.338	25.432	25.347	25.299	25.219	---	---	4
5	---	---	25.295	25.270	---	25.344	25.436	25.346	25.287	25.215	---	---	5
6	---	---	25.294	25.269	---	25.347	25.434	25.346	25.291	25.211	---	---	6
7	---	---	25.292	25.267	---	25.346	25.435	25.353	25.299	25.206	---	---	7
8	---	---	25.291	25.266	---	25.349	25.435	25.328	25.288	25.201	---	---	8
9	---	---	25.291	25.266	---	25.354	25.433	25.321	25.282	25.199	---	---	9
10	---	---	25.290	25.267	---	25.357	25.435	25.317	25.283	25.197	---	---	10
11	---	---	25.289	25.269	---	25.364	25.433	25.317	25.277	25.191	---	---	11
12	---	---	25.288	25.268	---	25.383	25.439	25.316	25.285	25.183	---	---	12
13	---	---	25.289	25.268	---	25.395	25.454	25.314	25.279	25.182	---	---	13
14	---	---	25.288	25.267A	25.288A	25.394	25.449	25.307	25.279	25.183	---	---	14
15	---	---	25.286	25.267	25.286	25.397	25.426	25.306	25.276	25.179	---	---	15
16	---	---	25.285	25.269	25.281	25.401	25.411	25.307	25.280	25.170	---	---	16
17	---	---	25.283	25.270A	25.286	25.398	25.408	25.305	25.284	25.165	---	---	17
18	---	---	25.283	25.266E	25.290	25.401	25.406	25.301	25.267	25.155	---	---	18
19	---	---	25.280	25.260E	25.292	25.409	25.404	25.299	25.278	25.158	---	---	19
20	---	---	25.277	25.260E	25.299	25.404	25.402	25.301	25.270	25.156	---	---	20
21	---	---	25.279	25.259E	25.305	25.401	25.400	25.300	25.275	25.144A	---	---	21
22	---	---	25.277	25.259E	25.310	25.403	25.396	25.310	25.263	25.142E	---	---	22
23	---	---	25.277	25.263E	25.310	25.407	25.395	25.316	25.273	25.139E	---	---	23
24	---	---	25.278	25.264E	25.318	25.406	25.389	25.313	25.270	25.137E	---	---	24
25	---	---	25.277	25.265E	25.327	25.400	25.389	25.307	25.272	25.134E	---	---	25
26	---	---	25.276	25.269A	25.327	25.402	25.391	25.306	25.273	25.132E	---	---	26
27	---	25.297A	25.275	25.270	25.331	25.402	25.386	25.311	25.264	25.129E	---	---	27
28	---	25.302	25.273	25.269	25.332	25.399	25.384	25.314	25.250	25.127E	---	---	28
29	---		25.274	25.262A	25.334	25.398	25.373	25.311	25.248	25.124E	---	---	29
30	---		25.272	25.274E	25.335	25.401	25.371	25.298	25.246	25.122A	---	---	30
31	---		25.272		25.337		25.370	25.293		25.120E		---	31
MEAN	---	---	25.284	25.267	---	25.380	25.413	25.319	25.278	25.171	---	---	MEAN
MAX	---	---	25.298	25.274	---	25.409	25.454	25.374	25.302	25.226	---	---	MAX
MIN	---	---	25.272	25.259	---	25.335	25.370	25.293	25.246	25.120	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 25.454 ON JUL 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 38 10 N
LONG 114 36 06 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW

DRAINAGE AREA,
475 km²

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

PEIGAN CREEK NEAR PAKOWKI ROAD - STATION NO. 05AH041

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	0 B	1.60 B	1.76	0.023	0.162	0	0	OE	0	---	---	1
2	---	0 B	2.70 B	1.20	0.022	0.103	0	0	OE	0	---	---	2
3	---	0 B	4.00 B	0.988	0.019	0.080	0	0	OE	0	---	---	3
4	---	0 B	4.46 B	0.856	0.014	0.056	0	0	OE	0	---	---	4
5	---	0 B	4.48 B	0.607	0.013	0.043	0	0	OE	0	---	---	5
6	---	0 B	4.50 B	0.391	0.010	0.036	0	0	OE	0	---	---	6
7	---	0 B	4.51 B	0.272	0.008	0.031	0	0	OE	0	---	---	7
8	---	0 B	3.00 B	0.203	0.007	0.024	0	0	OE	0	---	---	8
9	---	0 B	1.72 B	0.166	0.006	0.021	0	0	OE	0	---	---	9
10	---	0.001B	0.965B	0.132	0.005	0.017	0	0	OE	0	---	---	10
11	---	0.009B	0.764B	0.103	0.004	0.014	0	0	OE	0	---	---	11
12	---	0.016B	0.565B	0.086	0.004	0.010	0	0	OE	0	---	---	12
13	---	0.033B	0.383B	0.080	0.008	0.017	0	0	OE	0	---	---	13
14	---	0.036B	0.243B	0.075	0.009	0.022	0	0	OE	0	---	---	14
15	---	0.038B	0.158B	0.339	0.007	0.026	0	0	OE	0	---	---	15
16	---	0.030B	0.160B	0.500	0.006	0.153	0	0	OE	0	---	---	16
17	---	0.028B	0.162B	0.340	0.004	0.178	0	0	OE	0	---	---	17
18	---	0.025B	0.160B	0.201	0.006	0.093A	0	0	OE	0	---	---	18
19	---	0.023B	0.164	0.134	0.007	0.069A	0	0	OE	0	---	---	19
20	---	0.024B	0.688	0.091	0.006	0.077	0	0	OE	0	---	---	20
21	---	0.025B	2.81	0.064	0.010	0.056	0	0	OE	0	---	---	21
22	---	0.040B	2.09	0.050	0.011	0.039	0	0	OE	0	---	---	22
23	---	0.064B	1.53	0.037	0.012	0.026	0	0	OE	0	---	---	23
24	---	0.100B	1.22	0.033	0.016	0.019	0	0	OE	0	---	---	24
25	---	0.200B	0.691	0.029	0.051	0.011	0	0	OE	0	---	---	25
26	---	0.530B	0.476	0.028	0.059	0.005	0	0	OA	0	---	---	26
27	---	0.726B	0.356	0.027	0.496	0.002	0	0	0	0	---	---	27
28	---	0.916B	1.34	0.023	0.774	0.001	0	0	0	0	---	---	28
29	---		2.45	0.026	0.529	0	0	0	0	0	---	---	29
30	---		2.39	0.027	0.356	0	0	0A	0	0	---	---	30
31	OB		2.19		0.220		0	0E		0A		---	31
TOTAL	---	2.864	52.925	8.868	2.722	1.392	0	0	0	0	---	---	TOTAL
MEAN	---	0.102	1.71	0.296	0.088	0.045	0	0	0	0	---	---	MEAN
MAX	---	0.916	4.51	1.76	0.774	0.178	0	0	0	0	---	---	MAX
MIN	---	0	0.158	0.023	0.004	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.252
MAXIMUM DAILY, 4.51B ON MAR 07
MINIMUM DAILY, 0B ON FEB 01

SUMMARY FOR THE MONTHS FEB TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 34 50 N
LONG 110 56 30 W
DRAINAGE AREA, 440 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	247	AUG	0
MAR	4 570	SEP	0
APR	766	OCT	0
MAY	235	NOV	---
JUN	120	DEC	---

TOTAL DISCHARGE, 5 940 dam³

PEKISKO CREEK NEAR LONGVIEW - STATION NO. 05BL023

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.139B	0.391	1.42	12.4	1.01	1.30	0.416	0.136	---	---	
2	---	---	0.145B	0.424	1.75	16.4	0.975	1.22	0.380	0.140	---	---	2
3	---	---	0.160B	0.535	1.89	14.2	0.961	1.08	0.364	0.144	---	---	3
4	---	---	0.175B	0.597	2.69	11.8	0.824	0.947	0.341	0.149	---	---	4
5	---	---	0.190B	0.487	4.33	9.26	0.780	0.852	0.307	0.188	---	---	5
6	---	---	0.205B	0.408	6.93	6.99	0.722	0.741	0.276	0.276	---	---	6
7	---	---	0.215B	0.412	6.37	5.70	0.928	0.649	0.231	0.315	---	---	7
8	---	---	0.221B	0.456	4.49	4.69	0.993	0.583	0.227	0.270	---	---	8
9	---	---	0.220B	0.443B	3.53	4.03	0.802	0.542	0.208	0.274	---	---	9
10	---	---	0.216B	0.458B	3.44	3.71	0.697	0.529	0.191	0.297	---	---	10
11	---	---	0.213B	0.429B	3.38	3.47	0.623	0.490	0.168	0.324	---	---	11
12	---	---	0.200B	0.425	3.05	3.07	0.580	0.463	0.148	0.322	---	---	12
13	---	---	0.150B	0.408	3.01	3.08	0.540	0.645	0.144	0.325	---	---	13
14	---	---	0.089B	0.416	2.80	3.05	0.475	0.556	0.151	0.337	---	---	14
15	---	---	0.090B	0.543	2.64	2.69	0.450	0.483	0.144	0.314	---	---	15
16	---	---	0.100B	0.690	2.51	2.50	0.405	0.465	0.138	0.301	---	---	16
17	---	---	0.120B	0.675	2.37	2.48	0.374	0.444	0.137	0.285B	---	---	17
18	---	---	0.140B	0.776	2.55	2.27	0.330	0.498	0.132	0.238	---	---	18
19	---	---	0.190B	0.950	2.71	2.14	0.947	0.641	0.134	0.251	---	---	19
20	---	0.084B	0.200B	1.18	2.84	2.06	0.901	0.661	0.131	0.231B	---	---	20
21	---	0.090B	0.202B	1.36	2.77	2.01	0.752	0.568	0.133	0.227	---	---	21
22	---	0.094B	0.190B	1.54	2.71	1.91	0.640	0.454	0.132	0.220	---	---	22
23	---	0.096B	0.172B	1.57	2.75	1.79	0.548	0.424	0.124	0.228	---	---	23
24	---	0.106B	0.160B	1.54	3.75	1.70	0.568	0.502	0.097	0.199	---	---	24
25	---	0.108B	0.160B	1.48	18.4	1.63	0.725	0.613	0.087	0.186	---	---	25
26	---	0.115B	0.160B	1.54	31.0	1.53	2.08	0.685	0.083	0.173	---	---	26
27	---	0.120B	0.160B	1.51	21.4	1.39	2.09	0.616	0.093	0.179	---	---	27
28	---	0.125B	0.171B	1.36	14.3	1.26	1.93	0.524	0.119	0.194B	---	---	28
29	---		0.246B	1.20	17.3	1.15	1.78	0.483	0.128	0.193	---	---	29
30	---		0.321B	1.17	21.0	1.07	1.52	0.442	0.132	0.193A	---	---	30
31	---		0.395		16.1		1.38	0.423		0.193E		---	31
TOTAL	---	---	5.715	25.373	216.16	131.43	28.530	19.523	5.496	7.302	---	---	TOTAL
MEAN	---	---	0.184	0.846	6.97	4.38	0.920	0.630	0.183	0.236	---	---	MEAN
MAX	---	---	0.395	1.57	31.0	16.4	2.09	1.30	0.416	0.337	---	---	MAX
MIN	---	---	0.089	0.391	1.42	1.07	0.374	0.423	0.083	0.136	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.79
MAXIMUM DAILY, 31.0 ON MAY 26
MINIMUM DAILY, 0.083 ON SEP 26
MAXIMUM INSTANTANEOUS,
37.6 AT 10:13 MST ON MAY 26

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 28 26 N
LONG 114 12 20 W
DRAINAGE AREA, 232 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2 460
FEB	---	AUG	1 690
MAR	494	SEP	475
APR	2 190	OCT	631
MAY	10 700	NOV	---
JUN	11 400	DEC	---

TOTAL DISCHARGE, 38 000 dam³

PEMBINA RIVER AT JARVIE - STATION NO. 07BC002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	16.1 B	8.83B	7.28B	37.0B	85.5	123	75.0	46.1	31.6A	15.6	14.0	7.48B	1
2	15.6 B	8.54B	7.12B	37.9B	79.9	109	76.1	43.5	31.8A	15.2	12.8 B	7.55B	2
3	14.8 B	8.19B	7.11B	41.1B	73.8	110	78.9	42.0	29.0A	14.7	11.9 B	7.53B	3
4	14.4 B	7.29B	7.44B	42.2B	68.0	136	84.5	39.7	26.5A	14.4	12.0 B	6.81B	4
5	13.9 B	7.60B	8.99B	43.3B	64.5	138	178	38.8	25.9A	14.3	12.0 B	7.35B	5
6	13.8 B	8.24B	12.5 B	48.7B	64.1	133	351	38.0	28.7A	13.8	8.22B	7.31B	6
7	13.4 B	8.31B	17.4 B	62.6B	64.2	150	403	36.2	28.2A	13.8	7.70B	7.24B	7
8	13.0 B	8.34B	22.7 B	69.6B	63.9	181	379	34.5	26.0A	13.8	7.58B	7.24B	8
9	12.6 B	8.49B	25.7 B	60.4B	62.3	171	379	31.4	23.7A	14.0	9.69B	7.45B	9
10	12.7 B	8.61B	33.3 B	48.7B	62.8	151	414	30.0	21.8A	14.5	7.85B	7.54B	10
11	12.8 B	8.67B	37.4 B	45.3B	65.8	131	382	29.0	20.6A	15.7	9.92B	7.82B	11
12	12.8 B	8.36B	33.8 B	46.9B	66.4	112	297	27.0	19.9A	16.6	9.97B	7.80B	12
13	12.6 B	8.07B	25.8 B	49.4B	66.6	102	248	26.0	18.6A	17.3	10.2 B	7.84B	13
14	12.2 B	7.83B	18.8 B	51.9B	66.0	183	209	22.6A	17.8A	17.9	10.1 B	7.33B	14
15	11.8 B	7.71B	15.9 B	54.4B	63.3	304	176	22.1E	17.1A	17.9	9.85B	7.21B	15
16	11.0 B	7.69B	14.9 B	56.9	60.7	366 A	151	21.6A	16.6A	18.1	8.83B	7.08B	16
17	10.9 B	7.46B	15.6 B	53.5	60.7	368 A	136	20.8A	16.4A	18.8	8.12B	6.78B	17
18	10.9 B	7.13B	19.8 B	54.1	61.0	306 A	122	20.3A	18.5A	19.8	7.26B	6.74B	18
19	10.9 B	7.11B	25.4 B	53.6	60.0	248 A	112	20.7A	18.4A	19.9	7.84B	6.75B	19
20	10.8 B	7.03B	36.8 B	54.1	58.1	204 A	107	20.1A	16.7A	18.5	8.85B	6.50B	20
21	10.7 B	6.91B	41.1 B	53.7	57.0	174 A	97.4	19.7	17.5A	17.7	9.47B	6.30B	21
22	10.3 B	6.77B	36.6 B	56.2	57.8	150 A	84.9	20.5	19.0A	16.3	9.77B	6.00B	22
23	10.0 B	6.73B	31.7 B	63.6	59.4	134 A	76.2	21.8	23.5A	15.7	9.73B	5.80B	23
24	10.1 B	6.70B	32.4 B	76.4	62.9	121 A	70.6	21.3	27.2A	16.2	9.69B	5.50B	24
25	10.2 B	6.76B	30.6 B	81.2	73.2	109 A	66.4	22.3A	24.7A	15.5	9.64B	5.30B	25
26	10.3 B	7.01B	26.7 B	88.4	93.9	99.7	62.3	21.5A	21.7A	15.8	9.41B	5.10B	26
27	10.2 B	7.25B	24.4 B	100	99.7	90.0	57.6	20.2A	19.6	14.7	8.47B	4.80B	27
28	9.93B	7.48B	25.8 B	103	116	83.9	55.3	19.8A	18.2	14.1	7.84B	4.80B	28
29	9.60B		31.8 B	99.5	158	80.0	52.0	21.5A	17.3	13.6	7.65B	4.80B	29
30	9.32B		39.6 B	92.2	162	76.7	52.4	23.4A	16.4	14.0	7.67B	4.70B	30
31	9.08B		39.7 B		142		49.7	29.5A		14.2		4.70B	31
TOTAL	366.73	215.11	753.94	1 825.8	2 399.5	4 862.3	5 086.3	854.9	658.9	492.5	284.02	202.95	TOTAL
MEAN	11.8	7.68	24.3	60.9	77.4	162	164	27.6	22.0	15.9	9.47	6.55	MEAN
MAX	16.1	8.83	41.1	103	162	368	414	46.1	31.8	19.9	14.0	7.84	MAX
MIN	9.08	6.70	7.11	37.0	57.0	76.7	49.7	19.7	16.4	13.6	7.26	4.70	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 49.3
MAXIMUM DAILY, 414 ON JUL 10
MINIMUM DAILY, 4.70B ON DEC 30
MAXIMUM INSTANTANEOUS,
422 AT 18:19 MST ON JUL 10

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 27 05 N
LONG 113 59 30 W
DRAINAGE AREA, 13 100 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	31 700	JUL	439 000
FEB	18 600	AUG	73 900
MAR	65 100	SEP	56 900
APR	158 000	OCT	42 600
MAY	207 000	NOV	24 500
JUN	420 000	DEC	17 500

TOTAL DISCHARGE, 1 550 000 dam³

PEMBINA RIVER BELOW PADDY CREEK - STATION NO. 07BA001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	4.00B	11.9B	36.5	107	43.7	19.6	20.0	8.04	---	---	1
2	---	---	4.00B	18.4B	37.6	112	42.7	18.9	19.8	7.98	---	---	2
3	---	---	4.00B	21.9B	38.6	97.3	121	17.4	16.7	7.80	---	---	3
4	---	---	4.00B	25.0B	39.1	88.4	237	16.3	15.0	8.09	---	---	4
5	---	---	4.00B	22.7B	38.3	103	207	15.8	14.1	9.42	---	---	5
6	---	---	4.00B	23.1B	38.6	103	185	15.2	12.9	9.78	---	---	6
7	---	---	4.00B	21.0B	40.7	92.6	307	14.0	11.5	9.99	---	---	7
8	---	---	4.00B	17.0B	39.7	80.9	305	12.8	10.6	10.0	---	---	8
9	---	---	3.96B	15.0B	39.0	69.2	205	12.0	9.91	10.3	---	---	9
10	---	---	3.76B	13.5B	39.8	59.5	150	11.4	9.29	10.8	---	---	10
11	---	---	3.67B	13.5B	38.0	65.5	114	10.8	8.97	11.6	---	---	11
12	---	---	3.65B	13.6B	35.8	161	90.2	10.4	8.70	12.3	---	---	12
13	---	---	3.62B	13.7B	36.6	260	76.0	10.2	8.47	12.0	---	---	13
14	---	---	3.54B	14.0B	36.7	300	65.4	10.3	8.50	11.5	---	---	14
15	---	---	3.52B	14.5B	37.0	229	55.9	10.4	8.72	10.8	---	---	15
16	---	---	3.57B	15.3B	35.9	170	53.7	10.4	8.82	9.69B	---	---	16
17	---	---	3.60B	16.5B	35.2	130	57.0	10.7	11.5	9.11B	---	---	17
18	---	---	3.62B	18.0B	37.1	105	52.3	11.7	13.9	9.15B	---	---	18
19	---	---	3.76B	29.0B	38.5	86.7	45.7	11.9	17.3	9.10B	---	---	19
20	---	---	4.05B	41.2B	39.1	74.8	41.8	12.4	14.9	8.56B	---	---	20
21	---	---	4.09B	45.1B	46.1	67.1	37.9	12.0	13.5	8.29B	---	---	21
22	---	---	4.08B	47.5B	65.2	59.5	33.7	10.7	12.2	8.30B	---	---	22
23	---	---	3.97B	54.2B	68.8	52.6	30.7	10.6	11.0	8.62B	---	---	23
24	---	---	3.98B	57.1	61.6	47.8	30.7	12.9	10.3	9.08B	---	---	24
25	---	---	3.92B	58.7	78.9	45.3	32.6	17.6	9.63	8.24	---	---	25
26	---	---	3.56B	56.3	115	46.4	30.2	17.3	9.09	8.35	---	---	26
27	---	---	3.65B	50.9	111	44.8	27.4	16.2	8.65	7.95	---	---	27
28	---	---	4.14B	46.3	90.2	46.5	24.4	24.3	8.35	8.20	---	---	28
29	---	---	4.64B	41.6	75.6	50.6	22.2	17.3	8.11	7.48A	---	---	29
30	---		5.53B	37.8	68.6	49.6	20.1	14.9	8.09	7.00E	---	---	30
31	---		8.37B		87.5		20.0	15.6		6.50E		---	31
TOTAL	---	---	126.25	874.3	1 626.3	3 007.1	2 765.3	431.0	348.50	284.02	---	---	TOTAL
MEAN	---	---	4.07	29.1	52.5	100	89.2	13.9	11.6	9.16	---	---	MEAN
MAX	---	---	8.37	58.7	115	300	307	21.3	20.0	12.3	---	---	MAX
MIN	---	---	3.52	11.9	35.2	44.8	20.0	10.2	8.09	6.50	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 38.6
MAXIMUM DAILY, 307 ON JUL 07
MINIMUM DAILY, 3.52B ON MAR 15
MAXIMUM INSTANTANEOUS,
377 AT 01:39 MST ON JUL 08

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 07 47 N
LONG 115 19 30 W
DRAINAGE AREA, 2 900 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	239 000
FEB	---	AUG	37 200
MAR	10 900	SEP	30 100
APR	75 500	OCT	24 500
MAY	141 000	NOV	---
JUN	260 000	DEC	---

TOTAL DISCHARGE, 818 000 dam³

PEMBINA RIVER NEAR ENTWISTLE - STATION NO. 07BB002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	6.00B	4.86B	2.96B	29.8B	54.2	124	53.9	22.7	17.0	8.69	8.62	5.70B	1
2	6.00B	4.88B	3.00B	35.0B	52.3	131	48.3	22.7	19.5	8.25	8.24	5.44B	2
3	6.00B	4.95B	4.16B	39.6B	52.2	138	120	21.8	21.9	8.05	4.63B	5.03B	3
4	6.04B	5.00B	8.23B	39.5B	53.0	123	307	20.2	19.5	8.26	4.26B	4.44B	4
5	6.07B	5.02B	16.6 B	40.0B	52.8	187	359	18.6	17.2	8.95	5.43B	4.52B	5
6	6.28B	4.57B	19.5 B	40.0B	51.3	189	306	17.3	15.5	9.22	7.27B	4.83B	6
7	6.38B	4.05B	16.1 B	40.4	50.8	166	350	15.9	14.2	9.93	8.64B	5.26B	7
8	6.30B	3.82B	12.3 B	39.0	53.4	138	423	14.7	12.8	10.4	8.65B	5.77B	8
9	6.09B	3.63B	10.3 B	32.8	54.6	113	333	13.7	11.8	10.8	8.60B	6.28B	9
10	5.92B	3.45B	9.20B	28.7	55.2	93.7	243	12.9	10.9	11.1	7.59B	6.57B	10
11	5.44B	3.99B	7.16B	26.3	55.6	87.5	183	12.2	10.0	12.5	7.85B	6.34B	11
12	5.64B	4.15B	6.75B	26.5	52.9	188	138	11.5	9.56	13.2	9.03B	6.14B	12
13	5.31B	4.13B	5.26B	28.0	49.8	347	107	10.9	9.15	13.9	8.32B	5.64B	13
14	5.03B	4.22B	5.15B	28.9	50.4	418	88.8	10.4	8.91	14.3	8.96B	4.98B	14
15	5.07B	4.07B	5.90B	31.9	50.5	377	74.9	10.7	8.75	13.6	9.60B	5.19B	15
16	4.96B	4.08B	7.59B	32.5	50.0	287	65.5	11.1	9.05	13.0	9.60B	5.42B	16
17	4.81B	4.07B	7.70B	34.8	48.0	220	65.0	10.9	10.5	12.1	9.40B	5.60B	17
18	4.75B	4.00B	9.03B	34.5	47.1	172	67.1	10.9	13.3	10.8	9.10B	5.50B	18
19	4.67B	3.50B	10.6 B	36.9	48.2	137	60.2	12.2	16.4	9.94	8.31B	5.50B	19
20	4.69B	3.28B	14.5 B	43.5	49.1	110	52.8	12.4	20.7	10.0	8.74B	5.30B	20
21	4.91B	2.95B	17.6 B	55.2	49.7	93.2	48.1	12.7	19.6	9.88	9.20B	5.20B	21
22	5.19B	2.90B	19.7 B	58.4	58.0	81.0	44.1	13.3	16.9	9.24	9.20B	5.10B	22
23	5.45B	3.01B	14.9 B	61.1	80.8	70.3	39.9	11.9	15.2	8.34	8.65B	5.00B	23
24	5.21B	3.06B	11.7 B	74.0	81.6	61.8	37.0	11.4	13.7	8.27	7.65B	4.90B	24
25	5.01B	3.99B	8.63B	79.1	83.8	55.5	36.0	12.5	12.5	7.86	7.70B	4.80B	25
26	4.96B	4.02B	7.07B	78.8	128	53.3	37.5	17.9	11.6	9.17	7.84B	4.80B	26
27	4.67B	3.26B	6.95B	74.5	163	54.7	34.9	19.7	10.8	8.79	8.01B	4.80B	27
28	4.85B	2.98B	8.90B	68.8	142	54.9	32.1	19.0	9.99	8.87	7.03B	4.80B	28
29	4.39B		11.8 B	64.4	114	56.7	28.7	21.8	9.40	8.48	6.25B	4.80B	29
30	4.25B		17.6 B	59.1	96.3	56.3	25.9	21.1	9.04	8.70	5.65B	4.80B	30
31	4.87B		23.0 B		92.2		23.8	18.6		8.48		4.80B	31
TOTAL	165.21	109.89	329.84	1 362.0	2 120.8	4 383.9	3 913.5	473.6	405.35	313.07	238.02	163.25	TOTAL
MEAN	5.33	3.92	10.6	45.4	68.4	146	126	15.3	13.5	10.1	7.93	5.27	MEAN
MAX	6.38	5.02	23.0	79.1	163	418	423	22.7	21.9	14.3	9.60	6.57	MAX
MIN	4.25	2.90	2.96	26.3	47.1	53.3	23.8	10.4	8.75	7.86	4.26	4.44	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 38.3
MAXIMUM DAILY, 423 ON JUL 08
MINIMUM DAILY, 2.90B ON FEB 22
MAXIMUM INSTANTANEOUS, 437 AT 15:16 MST ON JUL 08

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 36 18 N
LONG 115 00 14 W
DRAINAGE AREA, 4 420 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	14 300	JUL	338 000
FEB	9 490	AUG	40 900
MAR	28 500	SEP	35 000
APR	118 000	OCT	27 000
MAY	183 000	NOV	20 600
JUN	379 000	DEC	14 100

TOTAL DISCHARGE, 1 210 000 dam³

PIGEON LAKE AT GRANDVIEW - STATION NO. 05FA013

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	850.187	850.401	850.230	850.075	---	---	1
2	---	---	---	---	---	850.175	---	850.393	---	---	850.003	---	2
3	---	---	---	850.034	---	---	---	850.387	850.225	---	---	---	3
4	---	---	---	---	---	850.175	850.426	850.384	850.221	850.053	849.999	---	4
5	---	---	---	---	---	850.179	850.503	850.373	850.220	---	---	---	5
6	---	---	---	---	---	850.175	---	850.369	850.216	850.079	---	---	6
7	---	---	---	---	---	850.179	850.537	850.363	850.211	850.070	---	---	7
8	---	---	---	---	850.149	850.178	850.537	850.355	---	850.073	---	---	8
9	---	---	849.953	850.072	---	850.175	850.529	850.349	850.199	850.073	849.989	---	9
10	---	---	---	---	---	850.183	850.529	850.347	850.195	---	---	---	10
11	---	---	---	---	---	---	850.528	850.342	850.191	850.057	---	---	11
12	---	---	---	---	850.149	---	850.508	850.335	850.187	850.059	---	---	12
13	---	---	---	---	---	---	850.504	850.329	850.183	850.057	---	---	13
14	---	---	---	---	850.145	850.235	850.498	---	---	---	---	---	14
15	---	---	---	---	850.147	850.228	850.490	850.311	850.165	850.049	---	---	15
16	---	---	---	---	850.141	850.231	850.488	850.311	850.165	850.043	---	---	16
17	---	---	---	---	---	850.228	---	850.303	850.157	850.043	---	---	17
18	---	---	---	---	850.146	850.227	850.472	850.303	850.151	850.039	---	---	18
19	---	---	---	---	---	850.225	850.470	850.299	---	---	---	---	19
20	---	---	---	---	---	850.219	850.464	850.293	850.133	850.029	---	---	20
21	---	---	---	---	850.151	850.219	850.454	850.291	---	850.029	---	---	21
22	---	---	---	---	850.151	---	850.444	---	850.129	850.023	---	---	22
23	---	---	849.986	---	---	850.211	850.446	---	850.125	850.023	---	---	23
24	---	---	---	---	850.153	850.212	---	850.261	850.123	850.023	---	---	24
25	---	---	---	---	---	850.208	850.431	850.253	---	850.020	---	---	25
26	---	---	---	850.134	850.171	850.199	850.429	850.251	850.117	850.010	---	---	26
27	---	---	---	---	850.175	850.205	---	850.248	850.112	---	---	---	27
28	---	---	---	---	850.171	850.213	---	850.243	---	---	---	---	28
29	---		---	---	---	850.213	850.429	850.240	850.109	850.011	---	---	29
30	---		---	---	850.177	850.198	850.415	---	850.101	850.010	---	---	30
31	---		---		850.181		850.411	850.229		---		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 52 59 15 N
LONG 114 03 10 W

A - MANUAL GAUGE

E - ESTIMATED

NATURAL FLOW

DRAINAGE AREA, 284 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

PIGEON LAKE CREEK NEAR USONA - STATION NO. 05FA019

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.020B	3.10 B	0.898	2.07	2.01	3.86	2.06	0.968	---	---	1
2	---	---	0.022B	2.89	0.849	1.99	2.27	3.94	2.04	1.13	---	---	2
3	---	---	0.024B	2.09	0.812	1.77	28.0	3.64	1.99	1.01	---	---	3
4	---	---	0.026B	1.44	0.786	1.94	44.7	3.54	1.91	0.870	---	---	4
5	---	---	0.029B	1.06	0.760	2.12	29.4	3.45	1.90	0.955	---	---	5
6	---	---	0.033B	0.898	0.821	1.95	19.2	3.37	1.87	0.927	---	---	6
7	---	---	0.037B	0.746B	0.827	1.84	14.7	3.33	1.83	0.889	---	---	7
8	---	---	0.040B	0.448B	0.893	1.84	10.3	3.21	1.83	0.877	---	---	8
9	---	---	0.035B	0.176B	0.785	1.78	8.48	3.17	1.76	0.862	---	---	9
10	---	---	0.032B	0.120B	0.798	1.78	7.33	3.12	1.73	1.07	---	---	10
11	---	---	0.028B	0.100B	0.745	2.26	6.55	3.07	1.71	0.943	---	---	11
12	---	---	0.022B	0.115B	0.751	4.54	6.10	3.00	1.75	0.833	---	---	12
13	---	---	0.004B	0.140	0.733	7.06	5.81	3.00	1.70	0.848	---	---	13
14	---	---	0.005B	0.212	0.743	5.21	5.69	2.87	1.62	0.832	---	---	14
15	---	---	0.050B	0.198	0.755	3.74	5.31	2.83	1.51	0.774	---	---	15
16	---	---	0.200B	0.162	0.726	2.93	5.59	2.80	1.51	0.743	---	---	16
17	---	---	0.462B	0.159	0.715	2.57	5.53	2.75	1.62	0.727	---	---	17
18	---	---	1.06 B	0.215	0.877	2.47	5.16	2.70	1.43	0.710	---	---	18
19	---	---	2.09 B	0.242	1.49	2.38	4.95	2.66	1.49	0.822	---	---	19
20	---	---	1.42 B	0.365	1.48	2.25	4.79	2.57	1.43	0.719	---	---	20
21	---	---	0.992B	0.413	1.57	2.13	4.60	2.56	1.40	0.667	---	---	21
22	---	---	0.353B	0.450	1.58	2.04	4.43	2.66	1.28	0.683	---	---	22
23	---	---	0.200B	0.687	1.54	2.02	4.38	2.68	1.28	0.653	---	---	23
24	---	---	0.100E	1.16	2.08	2.04	4.33	2.44	1.27	0.616	---	---	24
25	---	---	0.120B	1.47	2.43	2.06	4.26	2.27	1.27	0.623	---	---	25
26	---	---	0.200B	1.46	2.31	2.05	4.48	2.23	1.28	0.667	---	---	26
27	---	---	0.433B	1.28	2.13	2.14	4.44	2.20	1.21	0.593	---	---	27
28	---	---	2.05 B	1.13	2.05	2.11	4.23	2.13	1.10	0.616	---	---	28
29	---	---	2.81 B	1.06	1.95	2.09	4.04	2.08	1.14	0.593	---	---	29
30	---		3.10 B	0.982	2.03	2.01	3.92	2.13	1.05	0.547A	---	---	30
31	---		3.20 B		2.11		3.92	2.20		0.520E		---	31
TOTAL	---	---	19.197	24.968	39.024	75.18	268.90	88.36	46.97	24.287	---	---	TOTAL
MEAN	---	---	0.619	0.832	1.26	2.51	8.67	2.85	1.57	0.784	---	---	MEAN
MAX	---	---	3.20	3.10	2.43	7.06	44.7	3.86	2.06	1.13	---	---	MAX
MIN	---	---	0.004	0.100	0.715	1.77	2.01	2.08	1.05	0.520	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.40
MAXIMUM DAILY, 44.7 ON JUL 04
MINIMUM DAILY, 0.004B ON MAR 13
MAXIMUM INSTANTANEOUS, 51.5 AT 02:21 MST ON JUL 04

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 52 10 N
LONG 113 53 47 W
DRAINAGE AREA, 377 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	23 200
FEB	---	AUG	7 630
MAR	1 660	SEP	4 060
APR	2 160	OCT	2 100
MAY	3 370	NOV	---
JUN	6 500	DEC	---

TOTAL DISCHARGE, 50 700 dam³

PINCHER CREEK AT PINCHER CREEK - STATION NO. 05AA004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.445B	1.24	3.29	8.87	2.10	0.852	0.198	0.119	0.261	---	1
2	---	---	0.420B	1.65	5.62	7.53	2.07	0.827	0.193	0.125	0.259	---	2
3	---	---	0.403B	1.93	5.90	6.65	1.98	0.824	0.192	0.144	0.165B	---	3
4	---	---	0.438B	1.58	6.65	6.14	1.92	0.703	0.190	0.145	0.200B	---	4
5	---	---	0.430B	1.34	7.11	5.33	1.72	0.652	0.173	0.274	0.190B	---	5
6	---	---	0.469B	1.33	8.85	4.77	1.65	0.603	0.150	0.413	0.190B	---	6
7	---	---	0.483B	1.31	7.14	4.45	1.58	0.524	0.135	0.360	0.200B	---	7
8	---	---	0.430B	1.44 B	5.97	4.18	1.48	0.466	0.116	0.335	---	---	8
9	---	---	0.400B	1.10 B	5.30	3.83	1.35	0.456	0.123	0.305	---	---	9
10	---	---	0.381B	0.700B	5.15	3.89	1.26	0.443	0.123	0.373	---	---	10
11	---	---	0.360B	1.22 B	4.73	4.92	1.22	0.425	0.109	0.404	---	---	11
12	---	---	0.343B	1.34	4.61	3.73	1.18	0.402	0.114	0.352	---	---	12
13	---	---	0.360B	1.51	4.28	4.05	1.13	0.381	0.140	0.344	---	---	13
14	---	---	0.382B	1.98	3.98	4.30	1.08	0.349	0.153	0.320	---	---	14
15	---	---	0.410B	1.95	4.02	3.58	1.04	0.329	0.140	0.295	---	---	15
16	---	---	0.445B	2.05	3.94	3.38	0.984	0.334	0.140	0.328	---	---	16
17	---	---	0.470B	1.86	3.82	3.36	0.919	0.376	0.138	0.290	---	---	17
18	---	---	0.500B	2.01	3.52	3.30	0.854	0.408	0.128	0.293	---	---	18
19	---	---	0.460B	2.42	3.66	3.33	0.923	0.398	0.123	0.279	---	---	19
20	---	---	0.425B	2.59	3.47	3.52	1.01	0.525	0.128	0.242	---	---	20
21	---	---	0.400B	2.83	3.26	3.60	0.943	0.458	0.129	0.247	---	---	21
22	---	---	0.375B	2.92	3.01	3.24	0.807	0.356	0.126	0.220	---	---	22
23	---	---	0.350B	2.77	3.20	3.20	0.761	0.322	0.116	0.217	---	---	23
24	---	---	0.330B	2.62	5.40	3.33	0.936	0.337	0.101	0.203	---	---	24
25	---	---	0.350B	2.43	11.6	3.24	2.86	0.385	0.092	0.190	---	---	25
26	---	0.460B	0.420B	2.45	8.08	3.05	2.78	0.394	0.095	0.200	---	---	26
27	---	0.530B	0.500B	2.51	6.94	2.86	2.01	0.342	0.117	0.237	---	---	27
28	---	0.454B	0.610B	2.45	6.87	2.67	1.57	0.267	0.121	0.224	---	---	28
29	---		0.700B	2.43	15.0	2.43	1.30	0.227	0.121	0.224	---	---	29
30	---		0.934	2.54	11.4	2.21	1.12	0.200	0.114	0.226	---	---	30
31	---		1.32		9.16		0.982	0.200		0.227		---	31
TOTAL	---	---	14.743	58.600	184.61	122.04	43.419	13.765	4.038	8.155	---	---	TOTAL
MEAN	---	---	0.476	1.95	5.96	4.07	1.40	0.444	0.135	0.263	---	---	MEAN
MAX	---	---	1.32	2.92	15.0	8.87	2.86	0.852	0.198	0.413	---	---	MAX
MIN	---	---	0.330	0.700	3.01	2.21	0.761	0.200	0.092	0.119	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.83
MAXIMUM DAILY, 15.0 ON MAY 29
MINIMUM DAILY, 0.092 ON SEP 25
MAXIMUM INSTANTANEOUS, 22.0 AT 05:30 MST ON MAY 29

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 29 12 N
LONG 113 56 49 W
DRAINAGE AREA, 155 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 750
FEB	---	AUG	1 190
MAR	1 270	SEP	349
APR	5 060	OCT	705
MAY	16 000	NOV	---
JUN	10 500	DEC	---

TOTAL DISCHARGE, 38 800 dam³

PINE CREEK NEAR GRASSLAND - STATION NO. 07CA005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.005B	3.50 B	0.794	0.205	0.002	0.001	0.002	0.001	---	---	1
2	---	---	0.004B	2.36 B	0.743	0.172	0.005	0.001	0.001	0.001	---	---	2
3	---	---	0.004B	1.95 B	0.683	0.155	0.043	0.001	0.001	0.001	---	---	3
4	---	---	0.003B	1.17 B	0.684	0.143	0.101	0.001	0.001	0.001	---	---	4
5	---	---	0.003B	0.798B	0.685	0.136	0.284	0.002	0.001	0.001	---	---	5
6	---	---	0.005B	0.705B	0.653	0.144	0.445	0.003	0.001	0.001	---	---	6
7	---	---	0.003B	0.638B	0.741	0.134	0.299	0.006	0.002	0.001	---	---	7
8	---	---	0.003B	0.562B	0.792	0.127	0.173	0.010	0.003	0.001	---	---	8
9	---	---	0.005B	0.546B	0.884	0.123	0.139	0.013	0.001	0.001	---	---	9
10	---	---	0.007B	0.515B	0.789	0.111	0.078	0.013	0.001	0.001	---	---	10
11	---	---	0.010B	0.494B	0.729	0.110	0.037	0.014	0.001	0.001	---	---	11
12	---	---	0.011B	0.479B	0.634	0.122	0.009	0.012	0.001	0.001	---	---	12
13	---	---	0.014B	0.460B	0.635	0.067	0.001	0.005	0.001	0.001	---	---	13
14	---	---	0.014B	0.422B	0.520	0.055	0.001	0.008	0.004	0.001	---	---	14
15	---	---	0.013B	0.394B	0.461	0.064	0.001	0.002	0.001	0.001	---	---	15
16	---	---	0.017B	0.370B	0.473	0.070	0.001	0.007	0.001	0	---	---	16
17	---	---	0.024B	0.427B	0.651	0.080	0.001	0.007	0.001	0	---	---	17
18	---	---	0.030B	0.547B	0.772	0.087	0.001	0.006	0.001	0	---	---	18
19	---	---	0.037B	0.565	0.611	0.070	0.001	0.003	0.001	0	---	---	19
20	---	---	0.038B	0.515	0.471	0.060	0.001	0.004	0.001	0	---	---	20
21	---	---	0.039B	0.514	0.359	0.059	0.001	0.001	0.001	0	---	---	21
22	---	---	0.035B	0.572	0.320	0.032	0.001	0.005	0.001	0	---	---	22
23	---	---	0.032B	0.568	0.276	0.018	0.001	0.007	0.001	0	---	---	23
24	---	---	0.030B	0.655	0.235	0.012	0.001	0.006	0.001	0	---	---	24
25	---	---	0.034B	0.999	0.187	0.006	0.001	0.006	0.001	0	---	---	25
26	---	---	0.040B	1.50	0.170	0.003	0.003	0.003	0.001	0	---	---	26
27	---	0.001B	0.062B	1.34	0.166	0.006	0.005	0.003	0.001	0	---	---	27
28	---	0.001B	0.215B	1.08	0.158	0.006	0.003	0.002	0.001	0	---	---	28
29	---		1.03 B	0.948	0.151	0.005	0.001	0.003	0.001	0	---	---	29
30	---		3.36 B	0.878	0.146	0.005	0.007	0.002	0.001	0 A	---	---	30
31	---		4.28 B		0.147		0.003	0.002		0 E		---	31
TOTAL	---	---	9.407	26.471	15.720	2.387	1.650	0.163	0.037	0.015	---	---	TOTAL
MEAN	---	---	0.304	0.882	0.507	0.080	0.053	0.005	0.001	0.001	---	---	MEAN
MAX	---	---	4.28	3.50	0.884	0.205	0.445	0.014	0.004	0.001	---	---	MAX
MIN	---	---	0.003	0.370	0.146	0.003	0.001	0.001	0.001	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.228
MAXIMUM DAILY, 4.28B ON MAR 31
MINIMUM DAILY, 0 ON OCT 16
MAXIMUM INSTANTANEOUS,
4.50B AT 13:19 MST ON MAR 31

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 49 12 N
LONG 112 46 34 W
DRAINAGE AREA, 1 450 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	143
FEB	---	AUG	14.1
MAR	813	SEP	3.20
APR	2 290	OCT	1.30
MAY	1 360	NOV	---
JUN	206	DEC	---

TOTAL DISCHARGE, 4 830 dam³

PINTO CREEK NEAR GRANDE PRAIRIE - STATION NO. 07GC002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.125B	1.40 B	3.29	8.76	2.27	0.282	0.506	0.093	---	---	1
2	---	---	0.130B	1.70 B	3.32	6.20	2.28	0.268	0.762	0.108	---	---	2
3	---	---	0.150B	2.00 B	3.15	4.90	5.45	0.244	0.459	0.117	---	---	3
4	---	---	0.180B	1.93 B	3.17	9.41	8.43	0.226	0.328	0.125	---	---	4
5	---	---	0.200B	1.55 B	3.14	16.1	5.61	0.217	0.281	0.187	---	---	5
6	---	---	0.150B	1.27 B	3.21	9.24	4.37	0.198	0.244	0.221	---	---	6
7	---	---	0.120B	1.21 B	3.07	6.05	3.64	0.182	0.214	0.244	---	---	7
8	---	---	0.090B	0.981B	4.71	4.59	3.12	0.169	0.203	0.236	---	---	8
9	---	---	0.080B	0.684B	5.84	3.63	3.06	0.161	0.191	0.240	---	---	9
10	---	---	0.070B	0.667B	6.60	3.08	3.01	0.161	0.196	0.259	---	---	10
11	---	---	0.062B	0.531B	5.77A	88.3	2.47	0.161	0.188	0.282B	---	---	11
12	---	---	0.068B	0.549B	5.98A	272 A	2.09	0.155	0.180	0.310B	---	---	12
13	---	---	0.080B	0.811B	11.6 A	133	1.73	0.148	0.159	0.263B	---	---	13
14	---	---	0.150B	1.49 B	17.3 A	49.4	1.51	0.142	0.155	0.237B	---	---	14
15	---	---	0.225B	2.35 B	11.7 A	27.0	1.31	0.137	0.146	0.211B	---	---	15
16	---	---	0.215B	2.98 B	10.9	17.1	1.15	0.163	0.158	0.191B	---	---	16
17	---	---	0.210B	2.64 B	8.90	11.2	1.04	0.258	0.187	0.159B	---	---	17
18	---	---	0.340B	2.57	8.17	8.52	0.935	0.414	0.289	0.141B	---	---	18
19	---	---	0.330B	3.36	7.22	6.70	0.821	0.334	0.297	0.134B	---	---	19
20	---	---	0.280B	3.70	6.64	5.38	0.756	0.270	0.236	0.127B	---	---	20
21	---	0.022B	0.180B	3.62	5.80	4.51	0.688	0.223	0.201	0.128B	---	---	21
22	---	0.030B	0.135B	3.37	5.15	4.01	0.633	0.216	0.172	0.118B	---	---	22
23	---	0.039B	0.125B	3.45	4.63A	3.53	0.565	0.181	0.143	0.114B	---	---	23
24	---	0.050B	0.130B	4.52	4.06	3.05	0.523	0.194	0.134	0.115B	---	---	24
25	---	0.058B	0.140B	7.67	6.13	2.66	0.470	0.199	0.109	0.162B	---	---	25
26	---	0.066B	0.235B	7.51	12.7	2.38	0.431	0.199	0.092	0.255B	---	---	26
27	---	0.070B	0.300B	5.22	8.87	2.01	0.392	0.186	0.081	0.278B	---	---	27
28	---	0.090B	0.500B	4.00	6.03	1.71	0.361	0.169	0.078	0.260B	---	---	28
29	---		0.700B	3.13	4.58	1.59	0.321	0.161	0.076	0.260B	---	---	29
30	---		0.900B	3.12	4.10	1.88	0.307	0.172	0.079	0.216B	---	---	30
31	---		1.10 B		9.26		0.295	0.242		0.185B		---	31
TOTAL	---	---	7.700	79.983	204.99	717.89	60.038	6.432	6.544	5.952	---	---	TOTAL
MEAN	---	---	0.248	2.67	6.61	23.9	1.94	0.208	0.218	0.192	---	---	MEAN
MAX	---	---	1.10	7.67	17.3	272	8.43	0.414	0.762	0.310	---	---	MAX
MIN	---	---	0.062	0.531	3.07	1.59	0.295	0.137	0.076	0.093	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.45
MAXIMUM DAILY, 272A ON JUN 12
MINIMUM DAILY, 0.062B ON MAR 11
MAXIMUM INSTANTANEOUS,
360 AT 06:00 MST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 50 35 N
LONG 119 23 22 W
DRAINAGE AREA, 496 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	5 190
FEB	---	AUG	556
MAR	665	SEP	565
APR	6 910	OCT	514
MAY	17 700	NOV	---
JUN	62 000	DEC	---

TOTAL DISCHARGE, 94 100 dam³

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARKS.

PIPESTONE CREEK BELOW BIGSTONE CREEK - STATION NO. 05FA022

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.025B	13.4 B	3.50	1.06	0.697	2.22	---	---	---	---	1
2	---	---	0.030B	14.6 B	3.19	1.01	0.664	1.99	---	---	---	---	2
3	---	---	0.040B	15.5 B	2.91	0.934	2.10	1.79	---	---	---	---	3
4	---	---	0.050B	15.5	2.72	0.910	5.74	1.59	---	---	---	---	4
5	---	---	0.060B	13.3	2.57	1.52	15.7	1.42	---	---	---	---	5
6	---	---	0.070B	12.1	2.38	1.38	35.1	1.33	---	---	---	---	6
7	---	---	0.077B	10.6	2.16	1.10 A	45.5	1.33	---	---	---	---	7
8	---	---	0.080B	9.30	2.08	1.03 E	34.8	1.04	---	---	---	---	8
9	---	---	0.075B	8.31	1.95	0.940E	24.8	0.942	---	---	---	---	9
10	---	---	0.070B	7.63	1.89	0.860E	18.2	0.810	---	---	---	---	10
11	---	---	0.065B	7.14	1.73	0.800E	13.8	0.761	---	---	---	---	11
12	---	---	0.055B	6.64	1.65	0.840E	10.7	0.716	---	---	---	---	12
13	---	---	0.050B	6.18	1.57	2.00 E	8.55	0.646	---	---	---	---	13
14	---	---	0.060B	5.74	1.51	4.00 E	7.10	0.660	---	---	---	---	14
15	---	---	0.100B	5.42	1.45	2.50 E	5.95	0.528	---	---	---	---	15
16	---	---	0.250B	4.99	1.32	1.80 E	5.78	0.498	---	---	---	---	16
17	---	---	0.475B	4.63	1.23	1.60 E	5.79	0.485	---	---	---	---	17
18	---	---	1.11 B	4.31	1.22	1.50 E	5.33	0.465	---	---	---	---	18
19	---	---	1.70 B	3.85	1.13	1.40 E	4.78	0.451	---	---	---	---	19
20	---	---	2.31 B	3.58	1.02	1.30 E	4.36	0.421	---	---	---	---	20
21	---	---	1.75 B	3.40	0.932	1.25 E	4.01	0.375	---	---	---	---	21
22	---	---	1.60 B	3.17	0.792	1.20 E	3.60	0.308	---	---	---	---	22
23	---	---	1.40 B	3.27	0.713	1.15 E	3.26	0.266	---	---	---	---	23
24	---	---	1.40 B	5.34	0.736	1.10 E	3.02	0.219	---	---	---	---	24
25	---	---	1.50 B	5.00	0.811	1.05 E	2.85	0.192	---	---	---	---	25
26	---	---	1.69 B	4.33	0.768	1.00 E	2.89	0.165A	0.011A	---	---	---	26
27	---	---	2.50 B	4.11	0.735	0.982A	2.83	0.153A	---	---	---	---	27
28	---	0.021B	5.44 B	4.10	0.756	0.837	2.70	---	---	---	---	---	28
29	---	---	9.15 B	3.97	1.09	0.788	2.64	---	---	---	---	---	29
30	---	---	9.01 B	3.69	1.12	0.736	2.52	---	---	---	---	---	30
31	---	---	12.2 B		1.07		2.38	---	---	0.010A	---	---	31
TOTAL	---	---	54.392	213.10	48.693	38.577	288.141	---	---	---	---	---	TOTAL
MEAN	---	---	1.75	7.10	1.57	1.29	9.29	---	---	---	---	---	MEAN
MAX	---	---	12.2	15.5	3.50	4.00	45.5	---	---	---	---	---	MAX
MIN	---	---	0.025	3.17	0.713	0.736	0.664	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 45.5 ON JUL 07

MAXIMUM INSTANTANEOUS,
48.1 AT 09:45 MST ON JUL 07

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 02 25 N
LONG 113 21 54 W
DRAINAGE AREA, 1 020 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	24 900
FEB	---	AUG	---
MAR	4 700	SEP	---
APR	18 400	OCT	---
MAY	4 210	NOV	---
JUN	3 330	DEC	---

PIPESTONE RIVER NEAR LAKE LOUISE - STATION NO. 05BA002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.02 B	0.840B	0.975B	0.990B	2.17	39.4	28.9	14.2	5.61	3.20	2.32B	1.50 B	1
2	0.990B	0.920B	0.965B	1.02 B	2.24	37.6	24.5	12.6	5.19	3.14	2.22B	1.50 B	2
3	0.980B	1.00 B	0.955B	1.07 B	2.53	32.7	26.1	10.7	5.00A	3.10	1.85B	1.57 B	3
4	0.970B	1.35 B	0.945B	1.10 B	3.15	29.9	21.8	10.0	4.70E	3.48	1.80B	1.58 B	4
5	0.974B	1.40 B	0.940B	1.12 B	4.75	23.0	20.9	10.5	4.20E	4.39	1.85B	1.60 B	5
6	0.990B	1.37 B	0.940B	1.13 B	7.26	19.5	28.5	11.6	3.90E	3.60	1.90B	1.59 B	6
7	1.05 B	1.32 B	0.940B	1.12 B	5.59	17.8	28.6	12.1	3.95E	3.30	2.00B	1.58 B	7
8	1.11 B	1.07 B	0.940B	1.10 B	4.52	16.5	25.3	10.8	4.00E	3.29	2.10B	1.54 B	8
9	1.10 B	1.10 B	0.940B	1.03 B	4.14	16.5	25.1	10.4	4.10E	3.15	2.30B	1.48 B	9
10	0.980B	1.20 B	0.940B	1.00 B	3.99	22.4	25.2	10.2	4.20E	3.14	2.50B	1.30 B	10
11	0.935B	1.35 B	0.940B	1.03 B	4.06	27.9	24.9	10.4	4.30E	3.13	2.65B	1.20 B	11
12	0.960B	1.40 B	0.945B	1.10 B	4.29	21.5	27.9	10.5	4.35E	3.10	2.70B	1.20 B	12
13	0.980B	1.32 B	0.970B	1.10 B	3.99	18.9	29.3	11.3	4.40E	2.89	2.70B	1.22 B	13
14	1.05 B	1.00 B	0.985B	1.55 B	3.85	16.2	26.0	11.2	4.30E	2.86	2.66B	1.24 B	14
15	1.12 B	0.910B	0.980B	1.85 B	3.80	17.1	21.5	10.9	4.50E	2.85	2.52B	1.25 B	15
16	1.04 B	0.920B	0.960B	2.10 B	3.99	20.2	22.0	10.3	5.32A	2.83	2.50B	1.25 B	16
17	0.990B	0.930B	0.930B	2.35 B	4.40	22.8	19.9	9.20	4.64A	2.86	2.50B	1.25 B	17
18	0.960B	0.920B	0.890B	2.60 B	4.61	26.6	17.6	8.58	4.50E	3.08	2.45B	1.25 B	18
19	0.930B	0.910B	0.850B	2.80 B	5.23	24.5	16.5	7.72	4.00E	2.60	2.40B	1.18 B	19
20	0.925B	0.870B	0.804B	3.00 B	5.77	23.9	14.2	7.43	3.40E	2.59	2.38B	1.10 B	20
21	0.930B	0.855B	0.790B	3.13 B	6.59	25.5	13.2	7.90	3.25E	2.77	2.40B	1.06 B	21
22	0.960B	0.855B	0.780B	3.20 B	6.29	31.0	13.2	8.86	3.22E	2.60	2.43B	1.00 B	22
23	0.980B	0.870B	0.790B	3.24 B	7.84	36.9	14.4	9.16	3.30E	2.63	2.45B	1.04 B	23
24	0.960B	0.890B	0.810B	3.59	10.5	41.9	15.4	6.86	3.45E	2.67	2.36B	1.07 B	24
25	0.950B	0.900B	0.830B	3.43	16.2	41.4	15.7	6.56	3.43A	2.49	2.10B	1.12 B	25
26	0.935B	0.914B	0.860B	3.00	21.1	38.2	15.6	6.39	3.46	3.16	1.80B	1.30 B	26
27	0.930B	0.945B	0.870B	2.65	20.4	36.2	15.2	5.87	3.39	2.82	1.80B	1.43 B	27
28	0.915B	0.965B	0.890B	2.42	20.8	34.4	15.5	5.28	3.31	2.51	1.80B	1.43 B	28
29	0.900B		0.910B	2.25 B	24.5	27.7	14.0	5.10	3.24	2.38	1.80B	1.20 B	29
30	0.875B		0.930B	2.17 B	27.7	29.1	13.9	5.65	3.21	2.38	1.75B	0.850B	30
31	0.850B		0.960B		34.6		13.8	5.85		2.36		0.850B	31
TOTAL	30.239	29.294	28.154	59.440	290.75	814.2	634.6	284.11	121.82	91.35	66.99	39.730	TOTAL
MEAN	0.976	1.05	0.908	1.98	9.38	27.1	20.5	9.16	4.06	2.95	2.23	1.28	MEAN
MAX	1.12	1.40	0.985	3.59	37.7	41.9	29.3	14.2	5.61	4.39	2.70	1.60	MAX
MIN	0.850	0.840	0.780	0.990	2.17	16.2	13.2	5.10	3.21	2.36	1.75	0.850	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 6.82
MAXIMUM DAILY, 41.9 ON JUN 24
MINIMUM DAILY, 0.780B ON MAR 22
MAXIMUM INSTANTANEOUS,
48.6 AT 15:53 MST ON JUN 01

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 26 02 N
LONG 116 10 20 W
DRAINAGE AREA, 306 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	2 610	JUL	54 800
FEB	2 530	AUG	24 500
MAR	2 430	SEP	10 500
APR	5 140	OCT	7 890
MAY	25 100	NOV	5 790
JUN	70 300	DEC	3 430

TOTAL DISCHARGE, 215 000 dam³

PIYAMI DRAIN NEAR PICTURE BUTTE - STATION NO. 05AD037

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0	0.481	0.730	0.603	0.652	0.863	---	---	1
2	---	---	---	---	0	0.410	0.943	0.600	0.682	0.636	---	---	2
3	---	---	---	---	0.025	0.401	1.01	0.461	0.721	0.829	---	---	3
4	---	---	---	---	0.038	0.400	0.727	0.516	0.646	0.774	---	---	4
5	---	---	---	---	0.086	0.442	0.793	0.464	0.679	0.786	---	---	5
6	---	---	---	---	0.042	0.392	1.25	0.498	0.614	0.754	---	---	6
7	---	---	---	---	0.038	0.355	1.02	0.503	0.696	0.727	---	---	7
8	---	---	---	---	0.139	0.395	1.01	0.592	0.605	0.772	---	---	8
9	---	---	---	---	0.282	0.424	1.12	0.533	0.683	0.691	---	---	9
10	---	---	---	---	0.357	0.505	1.00	0.486	0.761	0.660	---	---	10
11	---	---	---	---	0.326	0.514	0.984	0.578	0.716	0.675	---	---	11
12	---	---	---	---	0.318	0.394	0.706	0.693	0.800	0.609	---	---	12
13	---	---	---	---	0.328	0.350	0.486	0.742	0.904	0.732	---	---	13
14	---	---	---	---	0.285	0.370	0.505	0.767	0.670	0.833	---	---	14
15	---	---	---	---	0.489	0.346	0.777	0.704	0.512	0.774	---	---	15
16	---	---	---	---	0.618	0.263	0.999	0.721	0.638	0.597	---	---	16
17	---	---	---	---	0.596	0.387	0.664	0.708	0.661	0.571	---	---	17
18	---	---	---	0.002A	0.370	0.400	0.831	0.950	0.746	0.507	---	---	18
19	---	---	---	0	0.336	0.373	1.17	0.970	0.809	0.319	---	---	19
20	---	---	---	0	0.393	0.421	1.22	1.05	0.528	0.159	---	---	20
21	---	---	---	0	0.368	0.460	1.06	0.776	0.543	0.121	---	---	21
22	---	---	---	0	0.202	0.487	0.985	0.748	0.793	0.113	---	---	22
23	---	---	---	0	0.244	0.471	0.985	0.718	0.999	0.109	---	---	23
24	---	---	---	0	0.408	0.429	0.833	0.809	0.970	0.093	---	---	24
25	---	---	---	0	0.725	0.581	1.00	0.905	0.604	0.078	---	---	25
26	---	---	---	0	0.330	0.691	1.10	0.904	0.537	0.020	---	---	26
27	---	---	---	0	0.375	0.701	0.631	1.04	0.653	0.011	---	---	27
28	---	---	---	0	0.426	0.621	0.487	0.804	0.694	0.009	---	---	28
29	---	---	---	0	1.74	0.521	0.560	0.785	0.707	0.008	---	---	29
30	---		---	0	1.51	0.550	0.566	0.789	0.660	0.006	---	---	30
31	---		---		0.599		0.565	0.689		0.001A		---	31
TOTAL	---	---	---	---	11.993	13.535	26.717	22.106	20.883	13.837	---	---	TOTAL
MEAN	---	---	---	---	0.387	0.451	0.862	0.713	0.696	0.446	---	---	MEAN
MAX	---	---	---	---	1.74	0.701	1.25	1.05	0.999	0.863	---	---	MAX
MIN	---	---	---	---	0	0.263	0.486	0.461	0.512	0.001	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.593
MAXIMUM DAILY, 1.74 ON MAY 29
MINIMUM DAILY, 0 ON MAY 01

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 49 49 N
LONG 112 45 43 W

A - MANUAL GAUGE

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2 310
FEB	---	AUG	1 910
MAR	---	SEP	1 800
APR	---	OCT	1 200
MAY	1 040	NOV	---
JUN	1 170	DEC	---

TOTAL DISCHARGE, 9 430 dam³

POINTE-AUX-PINS CREEK NEAR ARDROSSAN - STATION NO. 05EB902

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.613B	0.374	0.097	0.013	0	0.001	0	0.001B	---	1
2	---	---	---	0.413B	0.312	0.088	0.040	0.003	0	0	0.001B	---	2
3	---	---	---	0.828B	0.251	0.103	1.71	0.004	0	0	---	---	3
4	---	---	---	1.30 B	0.222	0.173	1.72	0.001	0	0	---	---	4
5	---	---	---	1.25 B	0.296	0.408	1.22	0.001	0	0.001	---	---	5
6	---	---	---	1.31	0.294	0.461	1.41	0.002	0	0.001	---	---	6
7	---	---	---	1.91	0.238	0.530	1.04	0.001	0	0.001	---	---	7
8	---	---	---	0.753	0.234	0.416	0.660	0	0	0.002	---	---	8
9	---	---	---	0.612	0.224	0.331	0.567	0	0	0.002	---	---	9
10	---	---	---	0.502	0.186	0.339	0.598	0	0	0.002	---	---	10
11	---	---	---	0.375	0.211	0.318	0.560	0	0	0.003	---	---	11
12	---	---	---	0.245	0.166	0.381	0.409	0	0	0.004	---	---	12
13	---	---	---	0.257	0.165	0.370	0.289	0	0	0.003	---	---	13
14	---	---	---	0.315	0.206	0.331	0.248	0	0	0.002	---	---	14
15	---	---	---	0.389	0.244	0.277	0.258	0	0	0.002	---	---	15
16	---	---	0 B	0.407	0.286	0.255	0.285	0	0	0.001	---	---	16
17	---	---	0.001B	0.374	0.308	0.056	0.250	0.001	0	0.002	---	---	17
18	---	---	0.016B	0.334	0.290	0.016	0.212	0.004	0.001	0.003	---	---	18
19	---	---	0.139B	0.375	0.320	0.005	0.187	0	0.001	0.002	---	---	19
20	---	---	0.191B	0.444	0.343	0	0.200	0.002	0.001	0.002	---	---	20
21	---	---	0.100B	0.510	0.380	0	0.141	0.001	0.001	0.002	---	---	21
22	---	---	0 B	0.583	0.395	0.006	0.106E	0	0.001	0.002	---	---	22
23	---	---	0 B	0.674	0.527	0.021	0.071E	0	0	0.001	---	---	23
24	---	---	0 B	0.946	0.920	0.016	0.036E	0	0	0.001	---	---	24
25	---	---	0 B	1.17	0.843	0.002	0 E	0	0.001	0.001	---	---	25
26	---	---	0.050B	1.01	0.734	0	0 E	0	0.001	0.001	---	---	26
27	---	---	0.100B	0.821	0.551	0.002	0 E	0	0	0.001	---	---	27
28	---	---	0.337B	0.686	0.450	0.003	0 E	0	0	0.001	---	---	28
29	---	---	0.574B	0.557	0.327	0.005	0 E	0	0	0.001	---	---	29
30	---		0.811B	0.447	0.241	0.007	0 E	0	0	0.002	---	---	30
31	---		0.737B		0.153		0	0.175		0.002		---	31
TOTAL	---	---	---	19.510	10.691	5.017	12.230	0.195	0.008	0.048	---	---	TOTAL
MEAN	---	---	---	0.650	0.345	0.167	0.395	0.006	0	0.002	---	---	MEAN
MAX	---	---	---	1.31	0.920	0.530	1.72	0.175	0.001	0.004	---	---	MAX
MIN	---	---	---	0.245	0.153	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 1.72 ON JUL 04
MINIMUM DAILY, 0B ON MAR 16
MAXIMUM INSTANTANEOUS, 4.43 AT 16:50 MST ON JUL 06

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 35 58 N
LONG 113 09 49 W
DRAINAGE AREA, 106 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 060
FEB	---	AUG	16.8
MAR	---	SEP	0.691
APR	1 690	OCT	4.15
MAY	924	NOV	---
JUN	433	DEC	---

POINTE-AUX-PINS TRIBUTARY NO. 1 NEAR ARDROSSAN - STATION NO. 05EB909

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.262B	0.040	0	0	0	0.031	0	0B	---	1
2	---	---	---	0.198B	0.033	0	0	0	0.017	0	0B	---	2
3	---	---	---	0.159	0.026	0	0.304	0	0.004	0	---	---	3
4	---	---	---	0.160	0.023	0	0.468	0	0	0	---	---	4
5	---	---	---	0.118	0.026	0.004	0.389	0	0	0	---	---	5
6	---	---	---	0.094	0.039	0.015	0.455	0	0	0	---	---	6
7	---	---	---	0.073	0.025	0.018	0.656	0	0	0	---	---	7
8	---	---	---	0.078	0.029	0.008	0.661	0	0	0	---	---	8
9	---	---	---	0.061	0.031	0.007	0.571	0	0	0	---	---	9
10	---	---	---	0.081	0.017	0	0.411	0	0	0	---	---	10
11	---	---	---	0.075	0.024	0.002	0.186	0	0	0	---	---	11
12	---	---	---	0.040	0.016	0.001	0.083	0	0	0	---	---	12
13	---	---	---	0.044	0.012	0.001	0.042	0	0	0	---	---	13
14	---	---	---	0.042	0.008	0.004	0.015	0	0	0	---	---	14
15	---	---	---	0.044	0.063	0	0.009	0	0	0	---	---	15
16	---	---	0.017B	0.038	0.013	0.055	0.007	0	0	0	---	---	16
17	---	---	0.026B	0.049	0.005	0.009	0.012	0	0	0	---	---	17
18	---	---	0.035B	0.056	0.004	0	0.010	0	0	0	---	---	18
19	---	---	0.074B	0.058	0.004	0	0.005	0	0	0	---	---	19
20	---	---	0.105B	0.061	0.002	0.003	0.005	0	0	0	---	---	20
21	---	---	0.004B	0.074	0.001	0	0.017	0	0	0	---	---	21
22	---	---	0 B	0.072	0.001	0.045	0.009	0	0	0	---	---	22
23	---	---	0 B	0.072	0.001	0.011	0.001	0	0	0	---	---	23
24	---	---	0 B	0.107	0.036	0	0	0	0	0	---	---	24
25	---	---	0 B	0.152	0.045	0	0	0	0	0B	---	---	25
26	---	---	0.002B	0.131	0.001	0	0	0	0	0B	---	---	26
27	---	---	0.042B	0.097	0	0	0	0	0	0B	---	---	27
28	---	---	0.108B	0.092	0	0	0	0	0	0B	---	---	28
29	---	---	0.141B	0.085	0	0	0	0	0	0B	---	---	29
30	---		0.196B	0.067	0	0	0	0	0	0B	---	---	30
31	---		0.366B		0		0	0.035		0B		---	31
TOTAL	---	---	---	2.740	0.525	0.183	4.326	0.035	0.052	0	---	---	TOTAL
MEAN	---	---	---	0.091	0.017	0.006	0.140	0.001	0.002	0	---	---	MEAN
MAX	---	---	---	0.262	0.063	0.055	0.661	0.035	0.031	0	---	---	MAX
MIN	---	---	---	0.038	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 0.661 ON JUL 08
MINIMUM DAILY, 0B ON MAR 22
MAXIMUM INSTANTANEOUS
0.683 AT 19:16 MST ON JUL 06

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 34 43 N
LONG 113 08 48 W
DRAINAGE AREA, 17.8 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	374
FEB	---	AUG	3.02
MAR	---	SEP	4.49
APR	237	OCT	0
MAY	45.3	NOV	---
JUN	15.8	DEC	---

POINTE-AUX-PINS TRIBUTARY NO. 2 NEAR ARDROSSAN - STATION NO. 05EB910

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.080B	0.020	0	0	0.001	0.008	0	0B	---	1
2	---	---	---	0.077B	0.020	0	0	0.001	0.002	0	0B	---	2
3	---	---	---	0.042B	0.019	0	0.167	0.001	0.001	0	---	---	3
4	---	---	---	0.023B	0.019	0	0.172	0	0	0	---	---	4
5	---	---	---	0.025B	0.020	0.003	0.048	0	0	0	---	---	5
6	---	---	---	0.006B	0.022	0	0.150	0	0	0.002	---	---	6
7	---	---	---	0.003B	0.024	0	0.211	0	0	0	---	---	7
8	---	---	---	0.006B	0.026	0	0.065	0	0	0	---	---	8
9	---	---	---	0.007B	0.027	0	0.025	0	0	0	---	---	9
10	---	---	---	0.008B	0.026	0.010	0.014	0	0	0	---	---	10
11	---	---	---	0.009B	0.097	0	0.005	0	0	0	---	---	11
12	---	---	---	0.010B	0.022	0	0.003	0	0	0	---	---	12
13	---	---	---	0.008B	0.016	0	0.001	0	0	0	---	---	13
14	---	---	---	0.006E	0.014	0	0	0	0	0	---	---	14
15	---	---	---	0.005E	0.011	0	0	0	0	0.002	---	---	15
16	---	---	0.034B	0.003E	0.009	0	0.001	0	0	0.001	---	---	16
17	---	---	0.069B	0.001A	0.008	0	0.001	0	0	0	---	---	17
18	---	---	0.146B	0.005	0.008	0	0.001	0	0	0	---	---	18
19	---	---	0.295B	0.005	0.007	0	0.001	0	0	0	---	---	19
20	---	---	0.126B	0.005	0.003	0	0.041	0	0	0	---	---	20
21	---	---	0.050B	0.007	0.001	0	0.005	0	0	0	---	---	21
22	---	---	0 B	0.011	0	0	0.003	0	0	0	---	---	22
23	---	---	0 B	0.015	0.001	0	0.003	0	0	0	---	---	23
24	---	---	0 B	0.031	0.011	0	0.002	0	0	0	---	---	24
25	---	---	0 B	0.050	0.017	0	0.002	0	0	0	---	---	25
26	---	---	0.069B	0.037	0.003	0	0.002	0	0	0	---	---	26
27	---	---	0.137B	0.029	0	0	0.002	0	0	0	---	---	27
28	---	---	0.166B	0.026	0	0	0.001	0	0	0	---	---	28
29	---	---	0.202B	0.023	0	0	0.001	0	0	0	---	---	29
30	---		0.142B	0.021	0	0	0.001	0.001	0	0	---	---	30
31	---		0.084B		0		0.001	0.028		0		---	31
TOTAL	---	---	---	0.584	0.451	0.013	0.929	0.032	0.011	0.005	---	---	TOTAL
MEAN	---	---	---	0.020	0.015	0	0.030	0.001	0	0	---	---	MEAN
MAX	---	---	---	0.080	0.097	0.010	0.211	0.028	0.008	0.002	---	---	MAX
MIN	---	---	---	0.001	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 0.295B ON MAR 19
MINIMUM DAILY, 0B ON MAR 22
MAXIMUM INSTANTANEOUS
0.450 AT 09:45 MST ON MAY 11

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 35 48 N
LONG 113 08 49 W
DRAINAGE AREA, 8.34 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	80.3
FEB	---	AUG	2.76
MAR	---	SEP	0.950
APR	50.5	OCT	0.432
MAY	39.0	NOV	---
JUN	1.12	DEC	---

POINTE-AUX-PINS TRIBUTARY NO. 3 NEAR ARDROSSAN - STATION NO. 05EB911

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.016B	0.004	0.002	0	0	0.001	0	0B	---	1
2	---	---	---	0.011B	0.005	0.002	0	0	0.001	0	0B	---	2
3	---	---	---	0.009B	0.005	0.002	0.049	0	0	0	---	---	3
4	---	---	---	0.008B	0.005	0.002	0.040	0	0	0	---	---	4
5	---	---	---	0.008B	0.005	0.002	0.020	0	0	0	---	---	5
6	---	---	---	0.007B	0.004	0.001	0.043	0	0.001	0.001	---	---	6
7	---	---	---	0.007B	0.005	0.001	0.045	0	0	0	---	---	7
8	---	---	---	0.007B	0.005	0.001	0.030	0	0	0.001	---	---	8
9	---	---	---	0.006B	0.004	0.001	0.028	0	0	0.001	---	---	9
10	---	---	---	0.006B	0.004	0.001	0.023	0	0	0.001	---	---	10
11	---	---	---	0.005B	0.003A	0.001	0.015	0	0	0.001	---	---	11
12	---	---	---	0.005B	0.003E	0.001	0.011	0	0	0.001	---	---	12
13	---	---	---	0.004B	0.003E	0.001	0.007	0	0	0.001	---	---	13
14	---	---	---	0.004B	0.003E	0.001	0.005	0	0	0.001	---	---	14
15	---	---	---	0.009B	0.002E	0.001	0.003	0	0	0.001	---	---	15
16	---	---	0.004B	0.020B	0.002E	0.001	0.004	0.001	0	0.001	---	---	16
17	---	---	0.007B	0.014B	0.002E	0.001	0.003	0	0	0.001	---	---	17
18	---	---	0.011B	0.010B	0.002E	0	0.001	0	0	0.001	---	---	18
19	---	---	0.014B	0.008B	0.002E	0	0.001	0	0	0.001	---	---	19
20	---	---	0.014B	0.007B	0.002E	0	0.001	0	0	0.001	---	---	20
21	---	---	0.006B	0.006B	0.001E	0	0.001	0	0	0.001	---	---	21
22	---	---	0 B	0.006	0.001E	0	0.001	0	0	0.001	---	---	22
23	---	---	0 B	0.006	0.001E	0	0	0	0	0.001	---	---	23
24	---	---	0 B	0.009	0.009A	0	0.001	0	0	0.001	---	---	24
25	---	---	0 B	0.011	0.005	0	0	0	0	0.001	---	---	25
26	---	---	0.020B	0.008	0.003	0	0	0	0	0.001	---	---	26
27	---	---	0.039B	0.006	0.002	0	0.001	0	0	0	---	---	27
28	---	---	0.040B	0.006	0.002	0	0	0	0	0	---	---	28
29	---	---	0.039B	0.005	0.002	0	0.001	0	0	0	---	---	29
30	---		0.031B	0.005	0.002	0	0	0	0	0	---	---	30
31	---		0.022B		0.002		0	0.002		0		---	31
TOTAL	---	---	---	0.239	0.100	0.022	0.334	0.003	0.003	0.021	---	---	TOTAL
MEAN	---	---	---	0.008	0.003	0.001	0.011	0	0	0.001	---	---	MEAN
MAX	---	---	---	0.020	0.009	0.002	0.049	0.002	0.001	0.001	---	---	MAX
MIN	---	---	---	0.004	0.001	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 0.049 ON JUL 03
MINIMUM DAILY, 0B ON MAR 22
MAXIMUM INSTANTANEOUS,
0.089 AT 14:21 MST ON JUL 03

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 35 44 N
LONG 113 08 47 W
DRAINAGE AREA, 3.55 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	28.9
FEB	---	AUG	0.259
MAR	---	SEP	0.259
APR	20.6	OCT	1.81
MAY	8.64	NOV	---
JUN	1.90	DEC	---

PONTON RIVER ABOVE BOYER RIVER - STATION NO. 07JF003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.700B	0.970B	25.5E	21.6	11.9	8.57	8.14	3.88	---	---	1
2	---	---	0.710B	1.00 B	26.9	22.4	11.5	9.38	8.04	4.02 E	---	---	2
3	---	---	0.740B	1.03 B	29.1	20.9	10.2	11.1	7.51	4.26	---	---	3
4	---	---	0.760B	1.05 B	36.5	18.9	8.88	11.1	7.37	5.23 E	---	---	4
5	---	---	0.770B	1.12 B	44.5	18.7	8.11	10.8 E	7.32	5.22	---	---	5
6	---	---	0.760B	1.17 B	54.6	16.9	7.49	10.2	7.18	4.06	---	---	6
7	---	---	0.750B	1.25 B	64.5	15.7 E	7.37	9.24	7.05	3.85 E	---	---	7
8	---	---	0.750B	1.33 B	60.4	15.5	7.39	7.11	6.90E	3.72 E	---	---	8
9	---	---	0.740B	1.44 B	53.5	16.6	7.00E	7.09	6.95E	3.63	---	---	9
10	---	---	0.740B	1.49 B	47.0	16.9	6.50	7.75	7.00	3.61	---	---	10
11	---	---	0.740B	1.50 B	41.7	17.3	6.28	7.61	6.70E	3.30 E	---	---	11
12	---	---	0.750B	1.37 B	37.0	17.1	5.94	6.98	6.00E	3.14	---	---	12
13	---	---	0.780B	1.20 B	32.7	16.0 E	5.78	7.00	5.48	2.11	---	---	13
14	---	---	0.800B	1.20 B	30.2	15.1	6.85	5.36	5.48	2.64 E	---	---	14
15	---	---	0.830B	1.30 B	29.1	14.0	28.7	8.62	5.08	2.77 B	---	---	15
16	---	---	0.880B	1.45 B	28.2E	12.6	50.7	5.48	6.83	2.71 B	---	---	16
17	---	---	0.900B	1.55 B	29.7	11.8 E	36.9	5.64	6.69	2.55 B	---	---	17
18	---	---	0.950B	1.71 B	31.5	11.8	26.9	5.56	6.08	2.34 B	---	---	18
19	---	---	0.950B	2.08 B	31.4	11.4 E	20.9	5.04	5.00E	1.90 B	---	---	19
20	---	---	0.940B	2.37 B	28.8E	11.4	18.1	4.90	4.28	1.62 B	---	---	20
21	---	---	0.935B	4.12 B	27.2	9.46	15.0	4.72	4.50E	1.60 B	---	---	21
22	---	0.650B	0.920B	6.08 B	25.8	9.70	14.3 E	4.58	4.68	1.61 B	---	---	22
23	---	0.655B	0.910B	6.30 B	24.3E	12.4	13.7	4.40E	4.80E	1.69 B	---	---	23
24	---	0.650B	0.910B	12.1 B	23.3	9.26	12.4	7.13	4.64	1.85 B	---	---	24
25	---	0.650B	0.910B	32.3 B	22.3E	8.78	12.4	10.7	4.22	1.85 B	---	---	25
26	---	0.650B	0.910B	44.9 B	23.1	8.21	10.8	13.2	4.14E	1.66 B	---	---	26
27	---	0.655B	0.920B	39.1	35.6	8.00E	11.4	11.8	4.12	1.26 B	---	---	27
28	---	0.670B	0.920B	30.8	33.1	8.11	10.2	10.7	4.24	1.18 B	---	---	28
29	---		0.930B	26.1	29.1	8.35	10.9	10.0 E	3.94	0.900B	---	---	29
30	---		0.940B	24.2	24.8	10.8	10.3	9.74	3.76	0.860B	---	---	30
31	---		0.950B		23.8		9.98	8.95		0.885B		---	31
TOTAL	---	---	26.095	253.580	1 055.2	415.67	424.77	250.45	174.12	81.905	---	---	TOTAL
MEAN	---	---	0.842	8.45	34.0	13.9	13.7	8.08	5.80	2.64	---	---	MEAN
MAX	---	---	0.950	44.9	64.5	22.4	50.7	13.2	8.14	5.23	---	---	MAX
MIN	---	---	0.700	0.970	22.3	8.00	5.78	4.40	3.76	0.860	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 10.9
MAXIMUM DAILY, 64.5 ON MAY 07
MINIMUM DAILY, 0.700B ON MAR 01
MAXIMUM INSTANTANEOUS,
66.6 AT 15:00 MST ON MAY 07

DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - MANUAL
LOCATION - LAT 58 27 53 N
LONG 116 15 23 W
DRAINAGE AREA, 2 440 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	36 700
FEB	---	AUG	21 600
MAR	2 250	SEP	15 000
APR	21 900	OCT	7 080
MAY	91 200	NOV	---
JUN	35 900	DEC	---

TOTAL DISCHARGE, 232 000 dam³

REMARKS - PEAK DISCHARGE WAS DERIVED FROM GRAPH OF OBSERVED READINGS.

PONY CREEK NEAR CHARD - STATION NO. 07CE003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.029B	0.201B	5.93	1.06	0.712	0.044A	0.067	0.097	---	---	1
2	---	---	0.028B	0.293B	5.80	1.08	0.688	0.035A	0.072	0.110	---	---	2
3	---	---	0.027B	0.329B	5.60	1.00	0.788	0.032A	0.071	0.136	---	---	3
4	---	---	0.026B	0.314B	5.35	0.912	0.774	0.028A	0.068	0.170	---	---	4
5	---	---	0.027B	0.320B	5.17	0.822	0.731	0.028A	0.059	0.172	---	---	5
6	---	---	0.028B	0.325B	4.91	0.859	0.611	0.026A	0.062	0.170	---	---	6
7	---	---	0.028B	0.317B	5.68	0.706	0.562	0.020A	0.057	0.168	---	---	7
8	---	---	0.030B	0.309B	6.03	0.686	0.613	0.017A	0.063	0.167	---	---	8
9	---	---	0.033B	0.248B	6.20	0.640	0.565	0.012A	0.065	0.165	---	---	9
10	---	---	0.034B	0.203B	6.20	0.653	0.567	0.006A	0.060	0.192	---	---	10
11	---	---	0.034B	0.162B	5.84	2.58	0.400	0.007A	0.056	0.207	---	---	11
12	---	---	0.034B	0.153B	5.21	5.66	0.332	0.005A	0.062	0.210	---	---	12
13	---	---	0.043B	0.153B	4.73	7.48	0.284	0.006A	0.068	0.206	---	---	13
14	---	---	0.050B	0.143B	4.22	8.31	0.242	0.008A	0.077	0.199	---	---	14
15	---	---	0.057B	0.123B	4.24	7.36	0.219	0.007A	0.098	0.195	---	---	15
16	---	---	0.075B	0.121B	4.13	6.05	0.201	0.008A	0.088	0.180B	---	---	16
17	---	---	0.081B	0.141B	3.93	5.03	0.196	0.007A	0.089	0.166B	---	---	17
18	---	---	0.078B	0.231B	3.63	4.36	0.150	0.008A	0.083	0.156B	---	---	18
19	---	---	0.079B	0.777B	3.29	3.77	0.147	0.011A	0.076	0.150B	---	---	19
20	---	---	0.075B	1.59 B	3.22	3.19	0.139	0.008A	0.084	0.144B	---	---	20
21	---	---	0.074B	2.70 B	2.85	2.74	0.127	0.012A	0.076	0.143B	---	---	21
22	---	---	0.070B	3.57 B	2.64	2.34	0.116	0.057A	0.080	0.143B	---	---	22
23	---	---	0.070B	3.78 B	2.66	2.01	0.140	0.074A	0.077	0.142B	---	---	23
24	---	---	0.068B	6.18 B	2.29	1.73	0.122	0.101	0.073	0.141B	---	---	24
25	---	---	0.060B	10.0	2.17	1.51	0.106	0.096	0.075	0.140B	---	---	25
26	---	---	0.061B	10.4	1.99	1.21	0.092	0.088	0.082	0.139B	---	---	26
27	---	---	0.056B	9.58	1.74	1.10	0.084	0.078	0.086	0.138B	---	---	27
28	---	---	0.056B	7.17	1.59	0.867	0.074	0.069	0.091	0.137B	---	---	28
29	---	---	0.068B	5.82	1.50	0.807	0.064	0.060	0.091	0.136B	---	---	29
30	---		0.080E	5.68	1.35	0.708	0.063	0.058	0.090	0.135B	---	---	30
31	---		0.087B		1.19		0.056A	0.064		0.134B		---	31
TOTAL	---	---	1.646	71.333	121.28	77.230	9.955	1.080	2.246	4.888	---	---	TOTAL
MEAN	---	---	0.053	2.38	3.91	2.57	0.321	0.035	0.075	0.158	---	---	MEAN
MAX	---	---	0.087	10.4	6.20	8.31	0.788	0.101	0.098	0.210	---	---	MAX
MIN	---	---	0.026	0.121	1.19	0.640	0.056	0.005	0.056	0.097	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.18
MAXIMUM DAILY, 10.4 ON APR 26
MINIMUM DAILY, 0.005A ON AUG 12
MAXIMUM INSTANTANEOUS,
11.1 AT 22:38 MST ON APR 25

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 51 55 N
LONG 110 55 00 W
DRAINAGE AREA, 278 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	860
FEB	---	AUG	93.3
MAR	142	SEP	194
APR	6 160	OCT	422
MAY	10 500	NOV	---
JUN	6 670	DEC	---

TOTAL DISCHARGE, 25 000 dam³

PORTER CREEK ABOVE BAPTISTE LAKE - STATION NO. 07BE003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.005B	0.061B	0.477A	0.144	0.085	0.041	0.028	0.038	---	---	1
2	---	---	0.005B	0.067B	0.400E	0.140	0.093	0.038	0.028	0.040	---	---	2
3	---	---	0.006B	0.065B	0.330E	0.140	0.194	0.036	0.029	0.034	---	---	3
4	---	---	0.006B	0.054B	0.270E	0.142	0.260	0.034	0.029	0.037	---	---	4
5	---	---	0.006B	0.049B	0.240E	0.147	0.268	0.034	0.029	0.039	---	---	5
6	---	---	0.006B	0.046B	0.235E	0.142	0.274	0.031	0.029	0.039	---	---	6
7	---	---	0.007B	0.043B	0.236E	0.140	0.343	0.029	0.026	0.042	---	---	7
8	---	---	0.007B	0.040B	0.240E	0.132	0.253	0.029	0.028	0.043	---	---	8
9	---	---	0.007B	0.036B	0.241E	0.128	0.198	0.029	0.028	0.044	---	---	9
10	---	---	0.007B	0.039B	0.240E	0.139	0.182	0.028	0.028	0.042	---	---	10
11	---	---	0.008B	0.042B	0.237E	0.165	0.159	0.029	0.029	0.044	---	---	11
12	---	---	0.009B	0.045B	0.231E	0.155	0.139	0.029	0.028	0.041	---	---	12
13	---	---	0.009B	0.049B	0.220E	0.138	0.122	0.026	0.028	0.043	---	---	13
14	---	---	0.009B	0.056B	0.210E	0.132	0.101	0.027	0.027	0.043	---	---	14
15	---	---	0.010B	0.057B	0.200E	0.129	0.085	0.028	0.025	0.043	---	---	15
16	---	---	0.010B	0.058B	0.180E	0.131	0.074	0.033	0.026	0.044	---	---	16
17	---	---	0.010B	0.066B	0.152E	0.143	0.076	0.031	0.029	0.041	---	---	17
18	---	---	0.010B	0.072B	0.140E	0.129	0.070	0.027	0.028	0.042	---	---	18
19	---	---	0.014B	0.072B	0.135E	0.132	0.065	0.028	0.032	0.042	---	---	19
20	---	---	0.016B	0.072B	0.136E	0.127	0.062	0.027	0.031	0.041	---	---	20
21	---	---	0.015B	0.070B	0.138E	0.129	0.057	0.024	0.027	0.043	---	---	21
22	---	---	0.014B	0.101B	0.139E	0.127	0.065	0.024	0.026	0.042	---	---	22
23	---	---	0.013B	0.190B	0.140E	0.122	0.062	0.024	0.028	0.041	---	---	23
24	---	---	0.013B	0.380B	0.141E	0.121	0.069	0.023	0.029	0.042	---	---	24
25	---	---	0.013B	0.409	0.142E	0.123	0.067	0.021	0.032	0.040	---	---	25
26	---	0.005B	0.010B	0.397	0.142E	0.113	0.061	0.021	0.034	0.040	---	---	26
27	---	---	0.013B	0.396	0.143E	0.107	0.055	0.020	0.036	0.042	---	---	27
28	---	0.005B	0.017B	0.398	0.144A	0.094	0.051	0.019	0.036	0.041	---	---	28
29	---		0.033B	0.406	0.144	0.093	0.054	0.020	0.038	0.042A	---	---	29
30	---		0.078B	0.409	0.143	0.091	0.050	0.024	0.038	0.042E	---	---	30
31	---		0.075B		0.145		0.046	0.028		0.041E		---	31
TOTAL	---	---	0.461	4.245	6.311	3.895	3.739	0.862	0.889	1.278	---	---	TOTAL
MEAN	---	---	0.015	0.142	0.204	0.130	0.121	0.028	0.030	0.041	---	---	MEAN
MAX	---	---	0.078	0.409	0.477	0.165	0.343	0.041	0.038	0.044	---	---	MAX
MIN	---	---	0.005	0.036	0.135	0.091	0.046	0.019	0.025	0.034	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.088
MAXIMUM DAILY, 0.477A ON MAY 01
MINIMUM DAILY, 0.005B ON MAR 01
MAXIMUM INSTANTANEOUS,
0.543 AT 03:26 MST ON APR 25

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 43 20 N
LONG 113 34 25 W
DRAINAGE AREA, 57.2 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	323
FEB	---	AUG	74.5
MAR	39.8	SEP	76.8
APR	367	OCT	110
MAY	545	NOV	---
JUN	337	DEC	---

TOTAL DISCHARGE, 1 870 dam³

POTHOLE CREEK AT RUSSELL'S RANCH - STATION NO. 05AE016

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.458	0.819	0.781	0.711	0.503	0.707	0.261	---	1
2	---	---	---	---	0.582	0.869	0.980	0.625	0.596	0.787	0.214	---	2
3	---	---	---	---	0.549	0.879	1.17	0.866	0.587	0.588	0.160B	---	3
4	---	---	---	---	0.435	0.753	1.09	1.00	0.628	0.562	0.152	---	4
5	---	---	---	---	0.383	0.556	0.867	1.02	0.604	0.623	0.112B	---	5
6	---	---	---	---	0.300	0.399	1.06	0.917	0.635	0.782	0.073B	---	6
7	---	---	---	---	0.226	0.410	1.19	0.625	0.555	0.705	0.139B	---	7
8	---	---	---	---	0.229	0.380	1.48	0.507	0.681	0.777	1.50 B	---	8
9	---	---	---	---	0.207	0.363	1.48	0.598	0.702	0.733	2.09 B	---	9
10	---	---	---	---	0.192	0.380	1.04	0.667	0.673	0.523	2.02	---	10
11	---	---	---	---	0.174	0.396	0.846	0.654	0.726	0.399	2.00	---	11
12	---	---	---	---	0.158	0.402	0.838	0.662	0.837	0.315	2.01	---	12
13	---	---	---	---	0.166	0.710	0.855	0.575	0.902	0.409	2.01	---	13
14	---	---	---	---	0.155	1.01	0.794	0.687	0.853	0.371	2.01	---	14
15	---	---	---	---	0.144	0.810	0.767	0.726	0.805	0.341	2.00	---	15
16	---	---	---	---	0.137	0.608	1.05	0.658	0.952	0.376	1.99	---	16
17	---	---	---	---	0.124	0.488	0.835	0.997	1.07	0.325	2.00	---	17
18	---	---	---	---	0.133	0.428	0.676	0.872	0.928	0.483	1.97 B	---	18
19	---	---	---	0.158A	0.151	0.369	0.796	0.870	0.983	1.39	1.97 B	---	19
20	---	---	---	0.152	0.181	0.374	1.20	0.864	0.747	1.65	1.97 B	---	20
21	---	---	---	0.105	0.153	0.445	1.34	0.910	0.744	1.66	1.50 B	---	21
22	---	---	---	0.097	0.158	0.434	1.23	0.725	0.657	1.68	2.07 B	---	22
23	---	---	---	0.085	0.504	0.400	1.07	0.709	0.635	1.60	1.36 B	---	23
24	---	---	---	0.077	0.833	0.431	1.03	0.801	0.744	1.56	0.295B	---	24
25	---	---	---	0.073	2.28	0.537	0.970	0.712	0.677A	1.50	0.036B	---	25
26	---	---	---	0.080	1.24	0.589	1.47	0.781	0.675A	1.48	0.365B	---	26
27	---	---	---	0.091	0.852	0.558	1.15	0.816	0.704	1.59	1.07 B	---	27
28	---	---	---	0.194	0.590	0.756	1.01	0.771	0.602	1.62	0.664B	---	28
29	---	---	---	0.262	1.10	0.651	1.12	0.749	0.684	1.59	0.170B	---	29
30	---		---	0.317	2.31	0.747	1.03	0.668	0.703	0.654	0.100B	---	30
31	---		---		1.63		0.908	0.564		0.330		---	31
TOTAL	---	---	---	---	16.734	16.951	32.123	23.307	21.792	28.110	34.281	---	TOTAL
MEAN	---	---	---	---	0.540	0.565	1.04	0.752	0.726	0.907	1.14	---	MEAN
MAX	---	---	---	---	2.31	1.01	1.48	1.02	1.07	1.68	2.09	---	MAX
MIN	---	---	---	---	0.124	0.363	0.676	0.507	0.503	0.315	0.036	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.810
MAXIMUM DAILY, 2.31 ON MAY 30
MINIMUM DAILY, 0.036B ON NOV 25

SUMMARY FOR THE MONTHS MAY TO NOV

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 33 52 N
LONG 112 49 40 W
DRAINAGE AREA, 772 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED SINCE 1919

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2 780
FEB	---	AUG	2 010
MAR	---	SEP	1 880
APR	---	OCT	2 410
MAY	1 450	NOV	2 960
JUN	1 460	DEC	---

TOTAL DISCHARGE, 15 000 dam³

POTHOLE TURNOUT NEAR MAGRATH - STATION NO. 05AE038

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0	0	0	0.278	0.878	0.110	0.505	---	---	1
2	---	---	---	0	0	0	0.295	0.940	0.103	0.510	---	---	2
3	---	---	---	0	0	0	0.333	0.984	0.098	0.493	---	---	3
4	---	---	---	0	0	0	0.322	0.950	0.121	0.497	---	---	4
5	---	---	---	0	0	0	0.421	0.922	0.163	0.463	---	---	5
6	---	---	---	0	0	0	0.540	0.865	0.205	0.453	---	---	6
7	---	---	---	0	0	0	0.583	0.783	0.212	0.445	---	---	7
8	---	---	---	0	0	0	0.575	0.827	0.293	0.435	---	---	8
9	---	---	---	0	0	0	0.570	0.789	0.260	0.443	---	---	9
10	---	---	---	0	0	0.095	0.555	0.753	0.235	0.466	---	---	10
11	---	---	---	0	0	0.184	0.626	0.709	0.238	0.365	---	---	11
12	---	---	---	0	0	0.258	0.700	0.662	0.242	0.141	---	---	12
13	---	---	---	0	0	0.264	0.731	0.587	0.260	0.004	---	---	13
14	---	---	---	0	0	0.251	0.758	0.571	0.281	0	---	---	14
15	---	---	---	0	0	0.241	0.810	0.547	0.321	0	---	---	15
16	---	---	---	0	0	0.233	0.828	0.566	0.363	0	---	---	16
17	---	---	---	0	0	0.229	0.901	0.583	0.369	0	---	---	17
18	---	---	---	0	0	0.223	0.875	0.584	0.429	0	---	---	18
19	---	---	---	0	0	0.266	0.834	0.586	0.503	0	---	---	19
20	---	---	---	0	0	0.290	0.879	0.582	0.497	0	---	---	20
21	---	---	---	0	0	0.282	0.834	0.459	0.488	0	---	---	21
22	---	---	---	0	0	0.279	0.780	0.340	0.463	0	---	---	22
23	---	---	---	0	0.008	0.287	0.819	0.309	0.385	0	---	---	23
24	---	---	---	0	0.130	0.284	0.861	0.335	0.338	0	---	---	24
25	---	---	---	0	0.124	0.281	0.859	0.360	0.342	0	---	---	25
26	---	---	---	0	0.121	0.285	0.843	0.341	0.392	0	---	---	26
27	---	---	0A	0	0.111	0.277	0.859	0.256	0.441	0	---	---	27
28	---	---	0	0	0.120	0.274	0.864	0.223	0.450	0	---	---	28
29	---	---	0	0	0.129	0.280	0.813	0.182	0.480	0	---	---	29
30	---		0	0	0.116	0.278	0.804	0.122	0.484	0 A	---	---	30
31	---		0		0.069		0.850	0.118		0 E		---	31
TOTAL	---	---	---	0	0.928	5.341	21.600	17.713	9.566	5.220	---	---	TOTAL
MEAN	---	---	---	0	0.030	0.178	0.697	0.571	0.319	0.168	---	---	MEAN
MAX	---	---	---	0	0.130	0.290	0.901	0.984	0.503	0.510	---	---	MAX
MIN	---	---	---	0	0	0	0.278	0.118	0.098	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.282
MAXIMUM DAILY, 0.984 ON AUG 03
MINIMUM DAILY, 0 ON APR 01

SUMMARY FOR THE MONTHS APR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 22 37 N
LONG 112 53 52 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 870
FEB	---	AUG	1 530
MAR	---	SEP	827
APR	0	OCT	451
MAY	80.2	NOV	---
JUN	461	DEC	---

TOTAL DISCHARGE, 5 220 dam³

PRAIRIE BLOOD COULEE NEAR LETHBRIDGE - STATION NO. 05AD035

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.135	0	0	0.128	0	0	0	0	---	---	1
2	---	---	0.095	0	0	0.046	0	0	0	0	---	---	2
3	---	---	0.019	0	0.038	0.024	0	0	0	0	---	---	3
4	---	---	0.011	0	0.060	0.016	0	0	0	0	---	---	4
5	---	---	0.010	0	0.024	0.009	0	0	0	0	---	---	5
6	---	---	0.003	0	0.015	0.005	0	0	0	0	---	---	6
7	---	---	0.001	0	0.008	0.003	0	0	0	0	---	---	7
8	---	---	0.001	0 B	0.004	0	0	0	0	0	---	---	8
9	---	---	0.001	0 B	0.002	0	0	0	0	0	---	---	9
10	---	---	0.001	0 B	0.001	0	0A	0	0	0	---	---	10
11	---	---	0.001B	0 B	0	0	0A	0	0	0	---	---	11
12	---	---	0.001B	0.002B	0	0	0	0	0	0	---	---	12
13	---	---	0.001B	0.001B	0	0	0	0	0	0	---	---	13
14	---	---	0.002B	0.001	0	0	0	0	0	0	---	---	14
15	---	---	0.002	0	0	0	0	0	0	0	---	---	15
16	---	---	0.002	0	0	0	0	0	0	0	---	---	16
17	---	---	0.003	0	0	0	0	0	0	0	---	---	17
18	---	---	0.002	0	0	0	0	0	0	0	---	---	18
19	---	---	0.003	0	0	0	0	0	0	0	---	---	19
20	---	---	0.002	0	0	0	0	0	0	0	---	---	20
21	---	---	0.002	0	0	0	0	0	0	0	---	---	21
22	---	---	0.001B	0	0	0	0	0	0	0	---	---	22
23	---	---	0.001B	0	0	0	0	0	0	0	---	---	23
24	---	---	0.001B	0	0	0	0	0	0	0	---	---	24
25	---	---	0.001B	0	0.001	0	0	0	0	0	---	---	25
26	---	1.29 B	0.001	0	0.001	0	0	0	0	0	---	---	26
27	---	0.596	0.001	0	0.616	0	0	0	0	0	---	---	27
28	---	0.310	0.001	0.002	0.227	0	0	0	0	0	---	---	28
29	---		0.001	0.001	0.099	0	0	0	0	0	---	---	29
30	---		0	0.001	0.092	0	0	0	0	0	---	---	30
31	---		0		0.134	0	0	0	0	0	---	---	31
					0.300		0	0		0A		---	
TOTAL	---	---	0.306	0.008	1.822	0.231	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.010	0	0.059	0.008	0	0	0	0	---	---	MEAN
MAX	---	---	0.135	0.002	0.616	0.128	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.010
MAXIMUM DAILY, 0.616 ON MAY 26
MINIMUM DAILY, 0 ON MAR 30
MAXIMUM INSTANTANEOUS,
1.59 AT 00:30 MST ON MAY 26

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 33 50 N
LONG 112 57 32 W
DRAINAGE AREA, 227 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	26.4	SEP	0
APR	0.691	OCT	0
MAY	157	NOV	---
JUN	20.0	DEC	---

TOTAL DISCHARGE, 204 dam³

PRAIRIE CREEK BELOW LICK CREEK - STATION NO. 05DB005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.992B	1.79 B	2.20	7.31	3.08	2.73	1.51	0.893	0.824	---	1
2	---	---	1.13 B	2.29 B	2.89	14.5	2.84	2.41	1.44	0.889	0.776B	---	2
3	---	---	1.24 B	2.67 B	3.34	11.7	8.88	2.72	1.34	0.894	0.722B	---	3
4	---	---	1.31 B	1.00 B	3.32	9.61	7.59	2.49	1.28	0.927	0.662B	---	4
5	---	---	1.55 B	0.770B	3.24	9.25	5.38	2.25	1.23	1.05	0.607B	---	5
6	---	---	1.52 B	0.705B	3.13	7.73	4.77	2.10	1.20	0.975	---	---	6
7	---	---	1.32 B	0.700B	2.80	6.50	7.78	1.98	1.18	0.952	---	---	7
8	---	---	1.15 B	0.676B	2.67	5.68	6.65	1.92	1.12	0.948	---	---	8
9	---	---	0.950B	0.625B	2.77	4.93	5.44	2.02	1.10	0.996	---	---	9
10	---	---	0.860B	0.796B	2.73	4.43	4.74	1.93	1.07	1.08	---	---	10
11	---	---	0.700B	0.768B	2.63	10.2	4.24	1.85	1.05	1.04	---	---	11
12	---	---	0.560B	0.565	2.73	27.1	3.81	1.61	1.05	0.994	---	---	12
13	---	---	0.500B	0.643B	2.78	22.7	3.46	1.43	1.09	0.956	---	---	13
14	---	---	0.464B	0.870B	2.84	18.7	3.20	1.41	1.05	0.918	---	---	14
15	---	0.393B	0.440B	1.07 B	2.67	13.8	2.90	1.37	1.00	0.861	---	---	15
16	---	0.410B	0.436B	1.09	2.57	11.5	3.15	1.38	1.25	0.906	---	---	16
17	---	0.420B	0.423B	1.28 B	2.41	10.4	3.10	1.67	1.42	0.796	---	---	17
18	---	0.440B	0.743B	1.70	2.36	8.49	2.80	2.22	1.18	0.806	---	---	18
19	---	0.460B	0.776B	2.02	2.22	7.39	2.89	1.95	1.09	0.827	---	---	19
20	---	0.480B	0.540B	2.26	2.06	6.74	2.78	1.78	1.05	0.819	---	---	20
21	---	0.510B	0.305B	2.25	2.88	6.15	2.57	1.61	0.995	0.810	---	---	21
22	---	0.530B	0.236B	2.25	3.69	5.47	2.44	1.65	0.969	0.799	---	---	22
23	---	0.560B	0.222B	2.49	3.12	4.80	2.31	2.27	0.953	0.778	---	---	23
24	---	0.590B	0.249B	2.64	3.39	4.40	2.24	2.30	0.916	0.781	---	---	24
25	---	0.630B	0.310B	2.54	10.3	4.12	3.22	2.12	0.904	0.782	---	---	25
26	---	0.680B	0.260B	2.59	11.9	3.78	2.96	2.35	0.903	0.827	---	---	26
27	---	0.727B	0.205B	2.24	9.15	3.57	2.65	2.19	0.896	0.829	---	---	27
28	---	1.01 B	0.226B	2.01	7.08	4.10	2.39	1.87	0.889	0.832	---	---	28
29	---		0.400B	1.82	5.87	4.70	2.25	1.64	0.881	0.813	---	---	29
30	---		1.10 B	1.79	6.49	3.51	2.12	1.55	0.884	0.813	---	---	30
31	---		2.07 B		9.26		3.04	1.57		0.835		---	31
TOTAL	---	---	23.187	46.916	127.49	262.96	117.67	60.34	32.890	27.426	---	---	TOTAL
MEAN	---	---	0.748	1.56	4.11	8.77	3.80	1.95	1.10	0.885	---	---	MEAN
MAX	---	---	2.07	2.67	11.9	27.1	8.88	2.73	1.51	1.08	---	---	MAX
MIN	---	---	0.205	0.565	2.06	3.51	2.12	1.37	0.881	0.778	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.85
MAXIMUM DAILY, 27.1 ON JUN 12
MINIMUM DAILY, 0.205B ON MAR 27
MAXIMUM INSTANTANEOUS,
35.5 AT 02:25 MST ON JUN 12

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 15 10 N
LONG 115 17 30 W
DRAINAGE AREA, 208 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	10 200
FEB	---	AUG	5 210
MAR	2 000	SEP	2 840
APR	4 050	OCT	2 370
MAY	11 000	NOV	---
JUN	22 700	DEC	---

TOTAL DISCHARGE, 60 400 dam³

PRAIRIE CREEK NEAR ROCKY MOUNTAIN HOUSE - STATION NO. 05DB002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2.71B	2.18B	1.74B	5.96B	5.33	22.0	14.0	9.40	5.48	3.56	3.27	2.40B	1
2	2.73B	2.27B	2.04B	6.15B	5.86	28.9	13.3	8.60	5.32	3.52	3.25	2.39B	2
3	2.74B	2.37B	2.32B	6.09B	7.09	35.9	20.8	8.44	5.01	3.54	3.30B	2.35B	3
4	2.75B	2.46B	2.24B	5.89B	7.70	29.4	31.9	8.60	4.83	3.49	3.42B	2.33B	4
5	2.77B	2.24B	2.29B	5.59B	7.27	27.1	24.3	8.04	4.66	3.82	3.60B	2.30B	5
6	2.79B	2.14B	2.48B	5.91B	7.24	25.2	19.1	7.47	4.38	3.95	3.70B	2.28B	6
7	2.78B	2.03B	2.76B	5.89B	7.16	22.3	19.7	6.88	4.25	3.78	3.80B	2.27B	7
8	2.77B	1.89B	2.60B	4.20B	7.07	19.8	22.5	6.45	4.02	3.78	3.70B	2.24B	8
9	2.76B	1.71B	1.31B	4.70B	7.07	17.6	18.9	6.27	4.04	3.69	3.60B	2.22B	9
10	2.74B	1.88B	1.16B	4.90B	7.25	15.8	16.5	6.26	3.96	3.89	3.53B	2.18B	10
11	2.64B	2.10B	1.12B	5.20B	7.16	16.3	14.8	6.00	3.93	3.94	3.44B	2.14B	11
12	2.65B	1.79B	1.20B	5.50B	7.17	17.7	13.5	5.81	3.78	3.84	3.33B	2.12B	12
13	2.68B	1.30B	1.24B	6.04	7.54	59.9	12.8	5.66	3.81	3.84	3.27B	2.10B	13
14	2.66B	1.20B	1.32B	5.42	7.91	51.5	12.0	5.55	3.89	3.78	3.33B	2.08B	14
15	2.60B	1.15B	1.71B	4.62	7.76	40.6	11.3	5.48	3.97	3.72	3.43B	2.06B	15
16	2.43B	1.20B	1.64B	4.49	7.44	32.6	11.3	5.62	3.97	3.68	3.50B	2.05B	16
17	1.98B	1.29B	1.89B	4.88	7.34	29.6	12.0	5.90	4.35	3.70	3.30B	2.03B	17
18	2.13B	1.39B	1.76B	5.16	7.00	26.8	11.5	6.70	4.73	3.62	3.15B	2.00B	18
19	2.71B	1.48B	2.42B	5.56	6.97	24.1	11.2	7.12	4.40	3.59	2.90B	1.97B	19
20	2.62B	1.48B	3.10B	5.90	7.10	21.8	11.3	6.84	4.18	3.48B	2.40B	1.93B	20
21	2.78B	1.59B	2.52B	6.08	7.72	20.8	10.8	6.18	4.08	3.35B	2.25B	1.90B	21
22	2.76B	1.56B	2.25B	5.95	10.6	19.2	10.2	6.06	4.06	3.58B	2.20B	1.89B	22
23	2.71B	1.74B	2.56B	5.93	11.1	17.7	9.51	6.47	3.84	3.60B	2.26B	1.88B	23
24	2.27B	1.67B	2.42B	6.11	10.5	16.7	9.19	7.64	3.79	3.50B	2.43B	1.86B	24
25	2.71B	1.74B	2.62B	6.34	15.2	15.9	9.94	7.71	3.69	3.55	2.38B	1.84B	25
26	2.54B	1.48B	2.46B	6.59	25.1	15.3	11.4	7.51	3.62	3.48	2.40B	1.83B	26
27	1.84B	1.29B	3.05B	6.70	45.2	15.0	10.7	7.65	3.62	3.38	2.45B	1.81B	27
28	2.43B	1.41B	3.46B	6.36	19.5	14.6	9.70	7.03	3.51	3.39	2.48B	1.80B	28
29	1.89B		4.02B	5.96	16.6	16.2	8.85	6.26	3.52	3.34	2.44B	1.77B	29
30	1.95B		4.88B	5.46	16.7	15.8	8.27	5.86	3.53	3.30	2.42B	1.75B	30
31	2.29B		6.71B		21.5		8.55	5.59		3.24		1.72B	31
TOTAL	78.83	48.03	75.29	169.53	320.10	752.1	429.81	211.05	124.22	111.93	90.93	63.49	TOTA
MEAN	2.54	1.72	2.43	5.65	10.3	25.1	13.9	6.81	4.14	3.61	3.03	2.05	MEAN
MAX	2.79	2.46	6.71	6.70	25.1	59.9	31.9	9.40	5.48	3.96	3.80	2.40	MAX
MIN	1.84	1.15	1.12	4.20	5.33	14.6	8.27	5.48	3.51	3.24	2.20	1.72	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 6.78
MAXIMUM DAILY, 59.9 ON JUN 13
MINIMUM DAILY, 1.12B ON MAR 11
MAXIMUM INSTANTANEOUS,
64.4 AT 08:47 MST ON JUN 13

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 16 20 N
LONG 114 55 50 W
DRAINAGE AREA, 859 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	6 810	JUL	37 100
FEB	4 150	AUG	18 200
MAR	6 510	SEP	10 700
APR	14 600	OCT	9 670
MAY	27 700	NOV	7 860
JUN	65 000	DEC	5 490

TOTAL DISCHARGE, 214 000 dam³

PUNK CREEK NEAR THE MOUTH - STATION NO. 06AB003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.001B	0.045B	0.021	0.007	0.007	0.002	0.010	0.004	0.003A	---	1
2	---	---	0.001B	0.095B	0.020	0.007	0.007	0.002	0.009	0.004	---	---	2
3	---	---	0.001B	0.210B	0.019	0.007	0.020	0.001	0.011	0.003	---	---	3
4	---	---	0.001B	0.152B	0.015	0.005	0.032	0.001	0.011	0.003	---	---	4
5	---	---	0.001B	0.111B	0.012	0.004	0.028	0.001	0.011	0.004	---	---	5
6	---	---	0.001B	0.088B	0.014	0.005	0.028	0.001	0.010	0.004	---	---	6
7	---	---	0.001B	0.064B	0.020	0.004	0.025	0.001	0.010	0.004	---	---	7
8	---	---	0.001B	0.120B	0.024	0.004	0.024	0.001	0.010	0.004	---	---	8
9	---	---	0.001B	0.072B	0.027	0.005	0.026	0.001	0.010	0.004	---	---	9
10	---	---	0.002B	0.039B	0.020	0.006	0.027	0.001	0.009	0.004	---	---	10
11	---	---	0.002B	0.029B	0.021	0.008	0.019	0.001	0.008	0.004	---	---	11
12	---	---	0.001B	0.024B	0.022	0.011	0.015	0.001	0.009	0.005	---	---	12
13	---	---	0.001B	0.028B	0.019	0.008	0.014	0.001	0.010	0.005	---	---	13
14	---	---	0.004B	0.032	0.019	0.006	0.011	0.001	0.010	0.005	---	---	14
15	---	---	0.005B	0.039	0.018	0.005	0.009	0.001	0.009	0.004	---	---	15
16	---	---	0.001B	0.034	0.017	0.007	0.009	0.001	0.009	0.005	---	---	16
17	---	---	0.001B	0.038	0.016	0.004	0.010	0.001	0.008	0.005	---	---	17
18	---	---	0.001B	0.044	0.015	0.006	0.012	0.001	0.008	0.005	---	---	18
19	---	---	0.001B	0.039	0.014	0.007	0.010	0.001	0.008	0.004	---	---	19
20	---	---	0.003B	0.032	0.013	0.004	0.009	0.001	0.009	0.004	---	---	20
21	---	---	0.004B	0.019	0.012	0.004	0.012	0.001	0.008	0.004	---	---	21
22	---	---	0.004B	0.024	0.013	0.005	0.010	0.001	0.008	0.004	---	---	22
23	---	---	0.005B	0.019	0.014	0.006	0.010	0.001	0.007	0.004	---	---	23
24	---	---	0.005B	0.031	0.010	0.006	0.007	0.002	0.006	0.005	---	---	24
25	---	---	0.005B	0.036	0.012	0.005	0.007	0.002	0.005	0.004	---	---	25
26	---	---	0.007B	0.030	0.007	0.004	0.005	0.002	0.006	0.004	---	---	26
27	---	---	0.009B	0.029	0.004	0.008	0.005	0.001	0.005	0.004	---	---	27
28	---	---	0.008B	0.028	0.007	0.008	0.005	0.002	0.006	0.004	---	---	28
29	---	---	0.011B	0.025	0.009	0.009	0.006	0.002	0.005	0.004	---	---	29
30	---		0.013B	0.017	0.008	0.010	0.005	0.006	0.004	0.004	---	---	30
31	---		0.028B		0.008		0.004	0.011		0.004		---	31
TOTAL	---	---	0.130	1.593	0.470	0.185	0.418	0.053	0.249	0.129	---	---	TOTAL
MEAN	---	---	0.004	0.053	0.015	0.006	0.014	0.002	0.008	0.004	---	---	MEAN
MAX	---	---	0.028	0.210	0.027	0.011	0.032	0.011	0.011	0.005	---	---	MAX
MIN	---	---	0.001	0.017	0.004	0.004	0.004	0.001	0.004	0.003	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.013
MAXIMUM DAILY, 0.210B ON APR 03
MINIMUM DAILY, 0.001B ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 32 20 N
LONG 111 13 40 W
DRAINAGE AREA, 395 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	36.1
FEB	---	AUG	4.58
MAR	11.2	SEP	21.5
APR	138	OCT	11.1
MAY	40.6	NOV	---
JUN	16.0	DEC	---

TOTAL DISCHARGE, 279 dam³

RACEHORSE CREEK NEAR THE MOUTH - STATION NO. 05AA027

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.709B	3.87	22.0	6.57	2.79 A	0.772	0.484	1.90	---	1
2	---	---	---	0.975B	4.37	18.8	5.95	3.03	0.739	0.535	1.62	---	2
3	---	---	---	1.33 B	5.26	16.8	5.48	2.77	0.721	0.506	1.22B	---	3
4	---	---	---	1.58 B	7.03	16.2	4.73	2.27	0.701	2.50	1.54B	---	4
5	---	---	---	1.36 B	9.41	14.1	4.22	2.05	0.665	7.88	1.40B	---	5
6	---	---	---	1.27 B	14.7	12.9	4.05	1.88	0.632	3.41	---	---	6
7	---	---	---	1.21 B	11.5	12.6	4.30	1.75	0.603	2.23	---	---	7
8	---	---	---	1.18 B	8.90	11.7	3.91	1.65	0.579	1.91	---	---	8
9	---	---	---	1.14 B	7.94	11.3	3.84	1.60	0.580	1.77	---	---	9
10	---	---	---	1.11 B	7.59	12.4	3.38	1.54	0.568	1.93	---	---	10
11	---	---	---	1.08 B	7.44	12.4	3.20	1.48	0.558	1.61	---	---	11
12	---	---	---	1.07 B	7.30	10.4	3.03	1.35	0.564	1.53	---	---	12
13	---	---	---	1.06 B	7.01	9.26	2.85	1.41	0.881	1.42	---	---	13
14	---	---	---	1.20	6.90	8.76	2.59	1.31	0.676	1.28	---	---	14
15	---	---	---	1.77	6.67	8.59	2.28	1.22	0.621	1.19	---	---	15
16	---	---	---	2.33	6.77	8.45	2.12	1.19	0.601	1.12	---	---	16
17	---	---	---	2.77	7.32	8.90	1.99	1.11	0.587	1.00	---	---	17
18	---	---	---	3.75	7.55	9.49	1.90	1.23	0.581	1.14	---	---	18
19	---	---	---	5.80	8.04	9.59	2.32	1.27	0.571	1.02	---	---	19
20	---	---	---	7.83	8.38	10.5	1.91	1.30	0.561	0.822	---	---	20
21	---	---	---	8.81	8.24	10.3	1.72	1.14	0.554	1.04	---	---	21
22	---	---	---	8.86	8.22	10.0	1.59	1.02	0.549	0.946	---	---	22
23	---	---	---	8.32	9.73	10.5	1.50	1.16	0.533	0.884	---	---	23
24	---	---	---	7.78	16.1	10.4	1.37	1.15	0.520	0.887	---	---	24
25	---	---	---	7.26	46.9	10.2	7.28	1.21	0.514	1.02	---	---	25
26	---	---	---	6.30	29.8	9.57	7.96	1.30	0.507	3.13	---	---	26
27	---	---	---	5.50	21.1	8.87	6.04	1.07	0.503	2.10	---	---	27
28	---	---	0.438B	4.80	18.3	7.77	5.11	0.951	0.502	1.19	---	---	28
29	---	---	0.470B	4.20	31.8	6.83	4.24	0.848	0.494	1.12	---	---	29
30	---		0.494B	3.79	31.5	6.71	3.65	0.839	0.478	1.88	---	---	30
31	---		0.583B		25.8		3.35A	0.798		2.01		---	31
TOTAL	---	---	---	106.144	401.44	336.29	114.82	45.886	17.915	53.494	---	---	TOTAL
MEAN	---	---	---	3.54	12.9	11.2	3.70	1.48	0.597	1.73	---	---	MEAN
MAX	---	---	---	8.86	46.9	22.0	7.96	3.03	0.881	7.88	---	---	MAX
MIN	---	---	---	0.709	3.87	6.71	1.58	0.798	0.478	0.484	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 5.03
MAXIMUM DAILY, 46.9 ON MAY 25
MINIMUM DAILY, 0.478 ON SEP 30
MAXIMUM INSTANTANEOUS,
55.1 AT 06:30 MST ON MAY 25

SUMMARY FOR THE MONTHS APR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 50 18 N
LONG 114 25 06 W
DRAINAGE AREA, 217 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	9 920
FEB	---	AUG	3 960
MAR	---	SEP	1 550
APR	9 170	OCT	4 620
MAY	34 700	NOV	---
JUN	29 100	DEC	---

TOTAL DISCHARGE, 93 000 dam³

RAM RIVER NEAR THE MOUTH - STATION NO. 05DC006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	5.62B	4.51B	3.60B	6.78B	11.7	143	43.1	25.1	14.7	8.21	7.03B	3.81B	1
2	5.54B	4.56B	3.58B	6.78B	15.5	190	39.2	23.5	14.0	8.15	6.47B	3.78B	2
3	5.44B	4.75B	3.54B	6.73B	18.2	139	55.8	23.2	13.5	8.10	5.06B	3.80B	3
4	5.36B	4.79B	3.50B	6.68B	18.6	125	49.0	20.9	13.2	8.30	5.52B	3.80B	4
5	5.30B	4.78B	3.44B	6.60B	23.0	100	43.1	19.4	12.4	9.57	5.83B	4.04B	5
6	5.22B	4.72B	3.40B	6.50B	30.2	85.1	50.8	18.6	12.0	9.12	5.08B	4.15B	6
7	5.17B	4.69B	3.33B	6.40B	25.3	76.5	95.5	17.6	11.6	8.35	5.35B	4.28B	7
8	5.12B	4.65B	3.27B	6.38B	22.0	69.9	85.4	16.9	11.2	8.37	5.20B	4.38B	8
9	5.07B	4.62B	3.30B	6.35B	21.3	63.6	71.9	17.5	11.0	8.34	5.08B	4.41B	9
10	5.03B	4.60B	3.14B	6.36B	20.3	62.6	63.5	17.1	10.7	8.94	5.21B	4.40B	10
11	4.97B	4.54B	3.07B	6.39B	19.9	71.4	55.4	16.3	10.4	8.56	5.33B	4.38B	11
12	4.92B	4.52B	3.00B	6.55B	21.0	107	51.9	16.0	10.4	8.29	5.30B	4.34B	12
13	4.82B	4.32B	2.93B	6.70B	20.3	119	49.1	18.8	11.3	9.03	5.25B	4.32B	13
14	4.78B	4.30B	2.86B	7.10B	22.1	127	43.9	17.6	10.6	7.59	5.10B	4.25B	14
15	4.76B	4.68B	2.81B	8.03	22.0	115	38.9	16.6	10.3	7.33B	4.55B	4.22B	15
16	4.72B	4.52B	2.78B	8.25	22.4	113	42.0	16.3	10.5	7.81B	4.45B	4.18B	16
17	4.67B	4.43B	2.76B	8.37	23.8	119	39.7	17.9	11.1	7.35B	4.59B	4.13B	17
18	4.64B	4.34B	2.75B	10.2	25.7	111	34.3	20.0	10.4	7.48B	3.99B	4.12B	18
19	4.63B	4.40B	2.74B	12.8	27.6	94.5	36.3	19.8	10.1	7.42B	3.88B	4.10B	19
20	4.62B	4.40B	2.72B	13.8	28.8	85.4	32.7	18.4	9.83	6.96B	3.86B	4.08B	20
21	4.61B	4.16B	2.71B	13.7	36.3	78.0	29.4	16.6	9.62	7.14B	3.80B	4.04B	21
22	4.60B	4.34B	2.78B	15.2	36.7	76.3	27.9	16.4	9.33	7.36B	3.76B	4.02B	22
23	4.58B	4.25B	2.95B	16.4	38.1	78.7	27.9	22.1	9.20	6.79B	3.74B	3.98B	23
24	4.56B	4.19B	3.80B	17.3	46.5	72.7	29.2	23.4	8.97	7.09B	3.70B	3.93B	24
25	4.54B	4.09B	4.00B	16.9	162	67.2	32.3	20.7	8.66	7.64B	3.70B	3.91B	25
26	4.52B	3.85B	5.20B	15.6	235	60.0	30.6	21.1	8.58	7.76	3.70B	3.91B	26
27	4.51B	3.67B	6.05B	14.0	128	56.1	27.2	19.4	8.47	7.33	3.69B	3.90B	27
28	4.50B	3.61B	6.60B	12.3	103	52.6	26.7	18.0	8.40	7.39	3.69B	3.90B	28
29	4.49B		6.81B	11.2	95.7	47.1	25.3	16.8	8.30	7.11	4.04B	3.89B	29
30	4.48B		6.88B	10.4	136	44.4	23.9	15.8	8.31	6.85	3.89B	3.88B	30
31	4.50B		6.87B		171		25.0	15.4		7.05		3.87B	31
TOTAL	150.29	123.28	117.17	296.75	1 628.0	2 750.1	1 325.8	585.0	317.07	241.77	139.84	126.20	TOTAL
MEAN	4.85	4.40	3.78	9.89	52.5	91.7	42.8	18.9	10.6	7.80	4.66	4.07	MEAN
MAX	5.62	4.79	6.88	17.3	235	190	95.5	25.1	14.7	9.57	7.03	4.41	MAX
MIN	4.48	3.61	2.71	6.35	11.7	44.4	23.9	15.4	8.30	6.79	3.69	3.78	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 21.4
MAXIMUM DAILY, 235 ON MAY 26
MINIMUM DAILY, 2.71B ON MAR 21
MAXIMUM INSTANTANEOUS,
292 AT 05:10 MST ON MAY 26

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 21 55 N
LONG 115 25 33 W
DRAINAGE AREA, 1 860 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	13 000	JUL	115 000
FEB	10 700	AUG	50 500
MAR	10 100	SEP	27 400
APR	25 600	OCT	20 900
MAY	141 000	NOV	12 100
JUN	238 000	DEC	10 900

TOTAL DISCHARGE, 675 000 dam³

RAT CREEK NEAR CYNTHIA - STATION NO. 07BA002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.544B	3.40B	7.53	18.9	11.6	2.83E	1.47	0.799	---	---	1
2	---	---	0.544B	4.40B	7.42	16.6	10.9	2.70E	1.59	0.824	---	---	2
3	---	---	0.544B	5.27B	7.05	14.4	24.4	2.55E	1.38	0.812	---	---	3
4	---	---	0.544B	5.80B	6.83	15.3	34.6	2.35E	1.20	0.839	---	---	4
5	---	---	0.544B	6.05B	6.54	26.0	38.4	2.27E	1.09	0.975	---	---	5
6	---	---	0.544B	6.10B	6.18	32.0	42.1	2.19E	1.02	1.07	---	---	6
7	---	---	0.544B	5.80B	5.83	31.3	42.6	2.05E	0.925	1.10	---	---	7
8	---	---	0.544B	5.00B	6.11	25.6	40.0	1.95E	0.886	1.10	---	---	8
9	---	---	0.548B	4.00B	6.60	19.4	34.6 A	1.83E	0.828	1.17	---	---	9
10	---	---	0.552B	3.00B	6.58	15.9	28.0 E	1.75E	0.793	1.29	---	---	10
11	---	---	0.560B	2.60B	6.23	16.5	22.0 E	1.67E	0.779	1.37	---	---	11
12	---	---	0.575B	2.70B	5.93	33.2	15.0 E	1.62E	0.774	1.43	---	---	12
13	---	---	0.600B	2.88B	5.88	45.8	12.0 E	1.59E	0.727	1.42	---	---	13
14	---	---	0.630B	3.73B	5.77	51.6	9.30E	1.55E	0.713	1.37	---	---	14
15	---	---	0.670B	4.92B	5.59	49.4	8.10E	1.54A	0.745	1.29	---	---	15
16	---	---	0.720B	5.76B	5.40	42.4	7.80E	1.36	1.04	1.19	---	---	16
17	---	---	0.775B	6.13B	5.25	32.4	8.80E	1.34	1.42	1.13 B	---	---	17
18	---	---	0.849B	6.05	5.15	24.4	8.00E	1.48	1.66	1.08 B	---	---	18
19	---	---	0.914B	6.50	5.12	18.6	7.00E	1.35	1.69	1.03 B	---	---	19
20	---	---	0.856B	7.18	5.15	15.8	5.80E	1.28	1.49	1.00 B	---	---	20
21	---	---	0.820B	7.43	5.70	14.1	4.80E	1.18	1.34	0.970B	---	---	21
22	---	---	0.774B	7.60	8.10	12.8	4.30E	1.09	1.21	0.940B	---	---	22
23	---	---	0.730B	8.63	9.20	11.7	4.00E	1.14	1.12	0.920B	---	---	23
24	---	---	0.750B	9.62	8.74	11.0	4.00E	1.23	1.04	0.900B	---	---	24
25	---	---	0.875B	10.3	12.5	10.5	4.60E	1.26	0.991	0.880B	---	---	25
26	---	---	1.00 B	9.98	17.4	11.3	4.20E	1.24	0.913	0.860B	---	---	26
27	---	---	1.22 B	9.03	17.1	11.2	3.70E	1.26	0.858	0.840B	---	---	27
28	---	---	1.45 B	8.43	15.4	16.2	3.40E	1.37	0.840	0.820B	---	---	28
29	---	---	1.70 B	8.06	13.7	14.4	3.10E	1.25	0.802	0.795B	---	---	29
30	---		1.90 B	7.74	14.7	12.8	3.00E	1.15	0.801	0.775B	---	---	30
31	---		2.60 B		17.1		2.95E	1.16		0.750B		---	31
TOTAL	---	---	26.420	184.09	259.78	671.5	453.05	50.60	32.135	31.739	---	---	TOTAL
MEAN	---	---	0.852	6.14	8.38	22.4	14.6	1.63	1.07	1.02	---	---	MEAN
MAX	---	---	2.60	10.3	17.4	51.6	42.6	2.83	1.69	1.43	---	---	MAX
MIN	---	---	0.544	2.60	5.12	10.5	2.95	1.09	0.713	0.750	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 6.98
MAXIMUM DAILY, 51.6 ON JUN 14
MINIMUM DAILY, 0.544B ON MAR 01
MAXIMUM INSTANTANEOUS,
52.9 AT 18:22 MST ON JUN 14

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 08 17 N
LONG 115 29 17 W
DRAINAGE AREA, 606 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	39 100
FEB	---	AUG	4 370
MAR	2 280	SEP	2 780
APR	15 900	OCT	2 740
MAY	22 400	NOV	---
JUN	58 000	DEC	---

TOTAL DISCHARGE, 148 000 dam³

RAVEN RIVER NEAR RAVEN - STATION NO. 05CB004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.35 B	0.880B	0.950B	17.2 B	4.03	11.5	3.71	3.06	2.73	2.06	2.12	1.63 B	1
2	1.25 B	0.890B	0.960B	14.3 B	3.95	14.7	3.97	3.12	2.68	2.07	1.90B	1.39 B	2
3	1.19 B	0.910B	0.990B	13.0 B	4.08	19.8	15.7	3.14	2.55	2.06	1.77B	1.15 B	3
4	1.12 B	0.970B	1.05 B	10.3 B	4.07	16.6	21.1	3.10	2.48	2.09	1.67B	1.48 B	4
5	1.10 B	1.00 B	1.12 B	7.20B	3.71	16.6	20.6	3.00	2.44	2.22	1.60B	1.70 B	5
6	1.16 B	1.00 B	1.25 B	4.80B	3.39	14.4	14.4	2.87	2.42	2.24	1.66B	1.69 B	6
7	1.22 B	0.980B	1.34 B	4.50B	3.11	10.9	14.0	2.71	2.38	2.23	1.78B	1.76 B	7
8	1.25 B	0.940B	1.40 B	4.30B	3.06	8.81	15.3	2.62	2.34	2.24	1.90B	1.79 B	8
9	1.28 B	0.900B	1.50 B	4.10B	3.15	7.01	10.9	2.76	2.31	2.32	2.00B	1.75 B	9
10	1.35 B	0.840B	1.51 B	3.97B	3.21	5.96	7.28	2.81	2.33	2.22	2.10B	1.74 B	10
11	1.25 B	0.800B	1.55 B	3.56	3.16	6.17	5.80	2.65	2.27	2.21	2.23B	1.73 B	11
12	1.10 B	0.740B	1.58 B	3.82	3.25	13.2	5.02	2.60	2.26	2.28	2.28B	1.16 B	12
13	1.10 B	0.710B	1.50 B	4.41	3.38	16.3	4.44	2.56	2.33	2.25	2.18B	1.12 B	13
14	1.13 B	0.700B	1.46 B	5.99	3.56	16.0	4.03	2.54	2.33	2.18	2.02B	1.13 B	14
15	1.18 B	0.690B	1.46 B	6.35	3.44	12.8	3.75	2.53	2.29	2.14	1.64B	1.30 B	15
16	1.22 B	0.690B	1.48 B	5.66	3.22	9.15	3.81	2.74	2.26	2.13B	1.84B	1.36 B	16
17	1.21 B	0.700B	1.50 B	4.94	3.00	7.59	4.05	3.10	2.27	2.18B	1.79B	1.24 B	17
18	1.21 B	0.750B	1.57 B	4.57	2.88	6.87	4.04	3.25	2.26	2.14B	1.46B	1.13 B	18
19	1.20 B	0.810B	1.61 B	4.19	2.79	6.05	4.24	3.24	2.26	2.17B	1.51B	1.10 B	19
20	1.16 B	0.910B	1.63 B	4.03	2.71	5.44	4.26	2.92	2.24	2.11B	1.43B	1.05 B	20
21	1.14 B	1.04 B	1.67 B	3.82	3.39	5.28	4.07	2.81	2.20	1.95B	1.20B	1.02 B	21
22	1.12 B	1.10 B	1.68 B	3.63	5.75	5.12	3.89	2.78	2.16	2.27B	1.18B	1.00 B	22
23	1.09 B	1.16 B	1.56 B	3.49	5.44	4.58	3.64	2.43	2.14	2.07B	1.32B	0.970B	23
24	1.01 B	1.18 B	1.45 B	3.37	5.20	4.31	4.50	3.69	2.10	2.03B	1.17B	0.920B	24
25	0.950B	1.16 B	1.40 B	3.34	10.2	4.17	4.35	3.59	2.08	2.15B	1.24B	0.890B	25
26	0.940B	1.10 B	1.52 B	4.27	14.3	4.02	4.10	3.59	2.12	2.10	1.54B	0.870B	26
27	0.930B	1.08 B	2.10 B	4.71	11.3	3.88	4.00	3.55	2.09	2.07	1.42B	0.850B	27
28	0.910B	1.02 B	3.20 B	4.80	7.93	3.91	3.74	3.32	2.05	2.06	1.50B	0.820B	28
29	0.900B		5.24 B	4.66	6.46	4.13	3.42	2.94	2.07	2.05	1.64B	0.810B	29
30	0.889B		9.36 B	4.27	7.76	3.92	3.29	2.84	2.13	2.01	1.75B	0.780B	30
31	0.880B		15.7 B		13.7		3.14	2.71		2.05		0.750B	31
TOTAL	34.789	25.650	72.290	171.55	158.58	269.17	212.54	92.57	68.57	66.35	50.84	38.080	TOTAL
MEAN	1.12	0.916	2.33	5.72	5.12	8.97	6.86	2.99	2.29	2.14	1.69	1.23	MEAN
MAX	1.35	1.18	15.7	17.2	14.3	19.8	21.1	3.69	2.73	2.32	2.28	1.79	MAX
MIN	0.880	0.690	0.950	3.34	2.71	3.88	3.14	2.53	2.05	1.95	1.17	0.750	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.45
MAXIMUM DAILY, 21.1 ON JUL 04
MINIMUM DAILY, 0.690B ON FEB 15
MAXIMUM INSTANTANEOUS,
22.5 AT 01:45 MST ON JUL 05

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 05 20 N
LONG 114 28 35 W
DRAINAGE AREA, 647 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	3 010	JUL	18 400
FEB	2 220	AUG	8 000
MAR	6 250	SEP	5 920
APR	14 800	OCT	5 730
MAY	13 700	NOV	4 390
JUN	23 300	DEC	3 290

TOTAL DISCHARGE, 109 000 dam³

RAY CREEK NEAR INNISFAIL - STATION NO. 05CE010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.001B	0.515	0.056	0.058	0.049	0.019	0.019	0.012	0.031A	---	1
2	---	---	0.030B	0.397	0.044	0.261	0.050	0.018	0.018	0.014	---	---	2
3	---	---	0.015B	0.325	0.042	0.312	0.072	0.021	0.018	0.012A	---	---	3
4	---	---	0.005B	0.199	0.046	0.604	0.314	0.020	0.019	0.012E	---	---	4
5	---	---	0.025B	0.116	0.040	1.47	0.310	0.012	0.014	0.012E	---	---	5
6	---	---	0.182B	0.087	0.035	1.17	0.173	0.010	0.013	0.015E	---	---	6
7	---	---	0.112B	0.064	0.033	0.676	0.106	0.008	0.013	0.020E	---	---	7
8	---	---	0.080B	0.046	0.037	0.305	0.062	0.007	0.014	0.026A	---	---	8
9	---	---	0.076B	0.030	0.036	0.136	0.042	0.008	0.013	0.025	---	---	9
10	---	---	0.057B	0.044	0.039	0.057	0.032	0.010	0.013	0.025	---	---	10
11	---	---	0.078B	0.037	0.036	0.178	0.025	0.008	0.012	0.022	---	---	11
12	---	---	0.105B	0.035	0.029	0.724	0.019	0.005	0.013	0.022	---	---	12
13	---	---	0.083B	0.051	0.028	1.04	0.014	0.006	0.017	0.025	---	---	13
14	---	---	0.157B	0.060	0.027	0.765	0.009	0.006	0.020	0.026	---	---	14
15	---	---	0.065B	0.074	0.029	0.421	0.007	0.004	0.015	0.028	---	---	15
16	---	---	0.062B	0.097	0.023	0.203	0.008	0.004	0.014	0.028	---	---	16
17	---	---	0.085B	0.085	0.016	0.116	0.010	0.016	0.015	0.024	---	---	17
18	---	---	0.101B	0.070	0.016	0.133	0.012	0.044	0.015	0.025	---	---	18
19	---	---	0.232B	0.056	0.035	0.140	0.016	0.050	0.016	0.025	---	---	19
20	---	---	0.420B	0.044	0.023	0.111	0.025	0.071	0.012	0.023	---	---	20
21	---	---	0.492B	0.045	0.035	0.079	0.024	0.038	0.013	0.024	---	---	21
22	---	---	0.206B	0.045	0.077	0.051	0.016	0.040	0.015	0.026	---	---	22
23	---	0B	0.126B	0.129	0.069	0.031	0.014	0.091	0.015	0.022	---	---	23
24	---	0B	0.083B	0.143	0.076	0.021	0.033	0.067	0.013	0.023	---	---	24
25	---	0B	0.058B	0.190	0.190	0.018	0.078	0.050	0.012	0.032	---	---	25
26	---	0B	0.066B	0.136	0.131	0.014	0.056	0.056	0.011	0.032	---	---	26
27	---	0B	0.101B	0.100	0.123	0.010	0.058	0.065	0.012	0.028	---	---	27
28	---	0B	0.230B	0.084	0.109	0.015	0.048	0.049	0.014	0.033	---	---	28
29	---		0.593B	0.070	0.080	0.031	0.040	0.030	0.013	0.030	---	---	29
30	---		0.707B	0.059	0.071	0.038	0.031	0.026	0.012	0.029	---	---	30
31	---		0.749B		0.079		0.026	0.042		0.030		---	31
TOTAL	---	---	5.382	3.433	1.710	9.188	1.779	0.901	0.433	0.730	---	---	TOTAL
MEAN	---	---	0.174	0.114	0.055	0.306	0.057	0.029	0.014	0.024	---	---	MEAN
MAX	---	---	0.749	0.515	0.190	1.47	0.314	0.091	0.020	0.033	---	---	MAX
MIN	---	---	0.001	0.030	0.016	0.010	0.007	0.004	0.011	0.012	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.096
MAXIMUM DAILY, 1.47 ON JUN 05
MINIMUM DAILY, 0.001B ON MAR 01
MAXIMUM INSTANTANEOUS,
2.05 AT 11:30 MST ON JUN 05

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 00 03 N
LONG 113 35 55 W
DRAINAGE AREA, 42.5 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	154
FEB	---	AUG	77.8
MAR	465	SEP	37.4
APR	297	OCT	63.1
MAY	148	NOV	---
JUN	794	DEC	---

TOTAL DISCHARGE, 2 040 dam³

RED DEER RIVER ABOVE PANTHER RIVER - STATION NO. 05CA004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	3.08	3.46	93.8	40.4	27.5	12.5	7.52	---	---	1
2	---	---	---	3.35	3.56	112	35.6	26.1	11.7	7.23	---	---	2
3	---	---	---	3.40	3.59	72.2	30.9	23.6	11.2	7.01	---	---	3
4	---	---	---	3.19	3.70	63.3	33.6	22.2	10.9	7.19	---	---	4
5	---	---	---	2.86B	4.62	48.3	31.7	22.5	10.7	8.31	---	---	5
6	---	---	---	2.98	6.61	41.9	43.7	23.1	10.8	7.78	---	---	6
7	---	---	---	3.06	6.20	38.6	46.0	24.6	11.2	6.97	---	---	7
8	---	---	---	3.03	5.80	36.3	41.0	23.3	11.8	6.77	---	---	8
9	---	---	---	2.70	5.53	35.5	38.0	22.6	11.8	6.58	---	---	9
10	---	---	---	2.50B	5.37	41.3	37.5	23.1	11.7	6.57	---	---	10
11	---	---	---	2.53B	5.41	45.2	36.3	22.8	12.0	6.45	---	---	11
12	---	---	---	2.68	5.45	36.5	37.5	23.0	12.2	6.30	---	---	12
13	---	---	---	2.81	5.34	33.5	38.5	24.3	11.2	6.10	---	---	13
14	---	---	---	2.87	5.63	32.4	37.5	24.4	10.1	5.84	---	---	14
15	---	---	---	2.77	5.63	33.7	33.3	24.4	10.2	5.78	---	---	15
16	---	---	---	2.64	5.50	40.2	33.2	23.2	10.8	5.76	---	---	16
17	---	---	---	2.63	5.58	42.5	31.1	21.5	10.5	5.51	---	---	17
18	---	---	---	2.87	5.81	44.0	28.7	20.5	9.56	5.67	---	---	18
19	---	---	---	3.19	6.10	39.8	28.9	19.8	9.02	5.48	---	---	19
20	---	---	---	3.45	6.32	38.5	26.0	18.7	8.68	5.22	---	---	20
21	---	---	---	3.59	6.74	37.8	23.8	18.8	8.34	5.37	---	---	21
22	---	---	---	3.76	6.69	44.4	23.3	20.9	8.21	5.40	---	---	22
23	---	---	---	3.92	7.64	52.0	24.4	20.2	8.40	5.06	---	---	23
24	---	---	---	4.07	12.3	56.8	27.8	16.7	9.06	5.32	---	---	24
25	---	---	---	4.01	75.3	59.1	34.2	15.2	9.49	5.29	---	---	25
26	---	---	3.16A	3.92	90.6	52.2	32.8	14.4	9.45	5.67	---	---	26
27	---	---	3.02	3.78	44.9	47.9	29.6	13.2	8.95	5.57	---	---	27
28	---	---	2.90B	3.71	38.4	43.9	29.3	12.0	8.54	5.66	---	---	28
29	---	---	2.96B	3.51	47.0	39.6	29.5	11.6	7.99	5.49	---	---	29
30	---		3.15	3.45	69.8	39.1	27.9	12.9	7.69	5.35	---	---	30
31	---		3.17		60.9		28.0	13.3		5.54A		---	31
TOTAL	---	---	---	96.31	566.48	1 442.3	1 026.4	630.6	304.68	189.76	---	---	TOTAL
MEAN	---	---	---	3.21	18.3	48.1	33.1	20.3	10.2	6.12	---	---	MEAN
MAX	---	---	---	4.07	90.6	112	46.0	27.5	12.5	8.31	---	---	MAX
MIN	---	---	---	2.50	3.46	32.4	23.3	11.6	7.69	5.06	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 19.9
MAXIMUM DAILY, 112 ON JUN 02
MINIMUM DAILY, 2.50B ON APR 10
MAXIMUM INSTANTANEOUS,
170 AT 00:16 MST ON JUN 02

SUMMARY FOR THE MONTHS APR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 39 33 N
LONG 115 24 23 W
DRAINAGE AREA, 941 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	88 700
FEB	---	AUG	54 500
MAR	---	SEP	26 300
APR	8 320	OCT	16 400
MAY	48 900	NOV	---
JUN	125 000	DEC	---

TOTAL DISCHARGE, 368 000 dam³

RED DEER RIVER AT DRUMHELLER - STATION NO. 05CE001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	19.0B	14.0B	14.8B	70.6A	80.7A	342	121 E	95.7	46.5	23.3	19.9	16.0B	1
2	19.5B	12.3B	15.9B	178 A	79.0E	396	118 E	92.7	42.3	23.3	19.5	15.1B	2
3	19.6B	14.1B	18.3B	275	77.0E	505	120 E	90.6	41.4	23.3	19.0	15.2B	3
4	19.4B	14.9B	23.3B	241	78.0E	771	156 E	89.6	39.3	23.9	16.7	15.2B	4
5	19.2B	16.7B	28.2B	227	88.0E	846	369 A	88.6	38.0	25.3	17.3	15.3B	5
6	17.3B	18.4B	26.5B	183	94.0E	678	578 A	84.5	37.2	26.4	12.0	15.6B	6
7	16.2B	19.3B	23.2B	144	92.0E	490	500	75.1	36.6	26.9	14.7	19.4B	7
8	16.7B	18.5B	24.2B	104 E	86.5A	425	467	72.7	37.0	24.7	21.2	18.0B	8
9	18.2B	17.9B	23.5B	94.0E	77.2	357	441	60.5	36.1	22.0	22.7	17.1B	9
10	18.5B	17.5B	26.3B	86.0E	64.2	311	381	53.5	31.8	21.6	20.0	17.0B	10
11	18.2B	16.9B	26.8B	83.0E	59.4	263	322	55.3	30.7	21.7	19.9	16.8B	11
12	18.1B	17.2B	25.9B	74.6	57.3	275	293	57.8	30.7	21.9	19.9	16.4B	12
13	17.6B	17.5B	26.5B	74.1	54.7	346	247	57.5	31.2	23.6	16.2	16.3B	13
14	17.0B	17.9B	29.8B	73.6	51.3	476	167	57.8	30.3	24.0	13.6	15.6B	14
15	16.5B	15.8B	27.9B	75.2	52.6	520	142	55.8	29.9	22.6	20.9 B	15.0B	15
16	18.1B	14.3B	30.2B	77.7	51.1	469	134	52.2	29.7	21.5	19.5 B	14.5B	16
17	18.2B	15.1B	36.6B	79.1	49.3	410	134	59.5	30.1	20.1	15.8 B	13.5B	17
18	17.4B	16.4B	41.9B	80.1	50.0	337	127	74.8	29.5	20.8	17.5 B	15.0B	18
19	17.0B	15.7B	47.6B	79.3	50.2	321	123	63.4	29.9	20.7	19.0 B	15.6B	19
20	16.0B	14.3B	52.6B	79.4	49.0	286	191	87.2	29.5	21.7	14.6 B	15.5B	20
21	15.5B	16.5B	49.6B	76.2	56.4	227	111	90.7	29.1	20.5	15.1	14.8B	21
22	16.5B	17.8B	45.7B	73.7	53.5	187	105	86.9	28.8	19.9	17.6 B	12.0B	22
23	17.5B	17.7B	58.2B	72.2	53.8	157	105	80.3	28.3	19.8	18.7 B	15.5B	23
24	18.4B	17.0B	63.4B	76.1	58.4	140	102	61.5	27.3	19.8	17.7 B	17.4B	24
25	18.2B	17.5B	63.2B	74.6	83.4	146	90.0	57.9	26.0	19.0	15.8 B	16.1B	25
26	17.5B	17.4B	62.1B	73.8	108	156	83.5	59.2	26.0	19.8	16.9 B	14.8B	26
27	16.8B	16.3B	65.2B	77.1	187	157	91.7	60.1	26.3	20.0	12.1 B	15.1B	27
28	16.8B	15.0B	64.6B	82.0	282	155	97.8	58.3	25.3	19.2	9.11B	14.9B	28
29	16.9B		62.2B	82.9	280	140	100	58.0	23.7	19.6	14.4 B	15.6B	29
30	16.4B		65.4B	79.8	277	126	99.5	53.6	23.2	19.5	17.0 B	15.3B	30
31	17.3B		62.6		271		96.3			19.7		13.5B	31
TOTAL	545.5	459.9	1 232.2	3 147.3	3 046.0	10 415	6 142.8	2 150.5	951.7	677.1	514.31	484.1	TOTAL
MEAN	17.6	16.4	39.7	105	98.3	347	198	69.4	31.7	21.8	17.1	15.6	MEAN
MAX	19.6	19.3	65.4	275	282	846	578	95.7	46.5	26.9	22.7	19.4	MAX
MIN	15.5	12.3	14.8	70.6	49.0	126	83.5	52.2	23.2	19.0	9.11	12.0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 81.6
MAXIMUM DAILY, 846 ON JUN 05
MINIMUM DAILY, 9.11B ON NOV 28
MAXIMUM INSTANTANEOUS,
897 AT 02:51 MST ON JUN 05

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 28 08 N
LONG 112 42 30 W
DRAINAGE AREA, 24 800 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1983

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	47 100	JUL	531 000
FEB	39 700	AUG	186 000
MAR	106 000	SEP	82 200
APR	272 000	OCT	58 500
MAY	263 000	NOV	44 400
JUN	900 000	DEC	41 800

TOTAL DISCHARGE, 2 570 000 dam³

RED DEER RIVER AT RED DEER - STATION NO. 05CC002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	21.0B	14.1B	17.6B	101 B	74.3	392	116 E	91.7	39.4	23.5	16.6	15.6B	1
2	20.2B	15.7B	17.4B	161 B	73.4	510	111 A	92.0	38.9	23.6	16.3	14.9B	2
3	19.9B	18.4B	17.1B	154 B	73.1	799	142	95.1	38.2	24.1	16.9	15.0B	3
4	18.9B	19.4B	16.9B	153 B	83.6	863	227	93.7	37.5	24.9	17.0	19.6B	4
5	20.4B	18.3B	16.6B	138	93.2	691A	267	83.4	37.4	24.9	17.6	16.9B	5
6	21.2B	17.8B	16.9B	106	89.3	464	297	77.0	37.0	22.1	17.0B	16.4B	6
7	20.9B	17.1B	20.5B	86.8	82.5	382	370	65.6	34.3	20.0	18.1	16.3B	7
8	19.6B	17.1B	22.3B	79.4A	66.6	322	382	51.6	30.9	19.9	18.3	17.1B	8
9	18.9B	16.3B	23.2B	76.0E	61.9	283	353	52.0	30.4	20.0	18.3	17.6B	9
10	18.6B	17.7B	22.5B	74.1E	53.7	233	302	59.7	30.2	20.1	18.3	16.7B	10
11	15.1B	18.1B	23.0B	72.0A	53.5	229	265	59.9	29.9	22.4	17.8B	16.1B	11
12	16.3B	15.8B	20.9B	69.3	47.5	269	206	59.7	30.3	20.7	17.6B	15.0B	12
13	19.1B	13.8B	21.8B	69.1	48.1	356	133	58.8	30.1	18.0	18.4	14.8B	13
14	18.7B	14.8B	22.5B	71.4	52.6	372	119	53.4	30.1	17.6	18.6	16.0B	14
15	17.4B	16.0B	27.1B	75.5	51.8	363	111	53.3	30.5	17.4	18.3	17.7B	15
16	16.8B	16.0B	25.7B	75.2	52.3	340	107	53.8	30.3	17.2	18.6	18.0B	16
17	13.9B	15.1B	25.3B	72.7	52.1	286	103	56.5	30.2	19.1	19.0	17.5B	17
18	14.9B	17.1B	23.6B	76.5	51.4	285	95.0	79.5	30.1	18.1	18.8	14.3B	18
19	15.1B	19.1B	24.2B	74.4	50.5	259	96.5	97.8	30.0	16.8	17.3B	12.0B	19
20	16.4B	19.5B	27.6B	72.2	51.7	215	95.8	103	30.0	16.5	17.2B	16.2B	20
21	18.3B	19.5B	32.6B	70.9	55.1	175	94.5	77.4	30.1	16.6	17.6B	16.5B	21
22	17.7B	19.5B	34.9B	69.8	57.1	149	91.3	60.2	28.2	16.5	15.5B	17.1B	22
23	17.2B	19.5B	40.5B	71.1	69.8	128	85.3	57.7	27.4	16.4	16.3B	19.1B	23
24	16.4B	18.4B	42.2B	69.5	98.7	144	71.0	56.3	27.3	16.8	15.9B	18.8B	24
25	17.5B	17.8B	42.0B	69.3	118	150	71.9	59.8	27.3	16.6	14.8B	17.3B	25
26	16.5B	17.5B	38.3B	69.3	208	152	89.6	59.5	24.9	16.4	16.0B	17.8B	26
27	15.1B	17.5B	34.4B	71.8	297	148E	91.5	59.6	24.1	16.4	15.3B	17.7B	27
28	16.0B	17.5B	33.2B	74.1	292	140E	96.1	61.5	23.7	16.4	14.8B	12.8B	28
29	11.4B		39.3B	75.1	285	132E	94.6	58.3	23.6	16.3	16.0B	14.6B	29
30	12.0B		60.5B	75.1	275	125E	93.6	46.4	23.7	16.3	14.5B	16.1B	30
31	13.7B		124 B		359		92.6	40.5		16.2		17.3B	31
TOTAL	534.7	484.6	954.6	2 574.0	3 377.8	9 356	4 870.3	2 071.7	916.1	587.8	512.7	508.8	TOTAL
MEAN	17.2	17.3	30.8	85.8	109	312	157	66.8	30.5	19.0	17.1	16.4	MEAN
MAX	21.2	19.5	124	161	359	863	382	103	39.4	24.9	19.0	19.6	MAX
MIN	11.4	13.8	16.6	69.1	47.5	125	71.0	40.5	23.6	16.2	14.5	12.0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 73.3
MAXIMUM DAILY, 863 ON JUN 04
MINIMUM DAILY, 11.4B ON JAN 29
MAXIMUM INSTANTANEOUS,
908 AT 09:33 MST ON JUN 04

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 16 36 N
LONG 113 48 57 W
DRAINAGE AREA, 11 600 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1983

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	46 200	JUL	421 000
FEB	41 900	AUG	179 000
MAR	82 500	SEP	79 200
APR	222 000	OCT	50 800
MAY	292 000	NOV	44 300
JUN	808 000	DEC	44 000

TOTAL DISCHARGE, 2 310 000 dam³

RED DEER RIVER BELOW BURNT TIMBER CREEK - STATION NO. 05CA009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	5.70B	5.45B	6.40B	5.00B	8.72	336	76.3	57.1	24.6	14.3	10.4	6.00B	1
2	5.99B	5.50B	6.35B	4.80B	9.91	395	67.7	52.8	23.4	13.8	9.16A	5.70B	2
3	6.20B	5.55B	6.30B	4.60B	11.0	251	74.3	48.0	22.6	13.5	8.00B	5.70B	3
4	6.40B	5.60B	6.20B	4.50B	11.8	194	63.5	44.3	21.7	13.4	8.50B	5.80B	4
5	6.50B	5.65B	6.10B	4.40B	13.8	137	58.9	41.8	21.2	13.4	8.00B	6.10B	5
6	6.70B	5.65B	6.00B	4.40B	18.8	116	82.8	41.6	21.0	15.2	7.50B	6.60B	6
7	6.90B	5.60B	5.80B	4.45B	16.5	102	91.9	42.7	21.0	13.4	8.40B	6.70B	7
8	7.10B	5.50B	5.60B	4.60B	14.3	91.4	84.3	41.5	21.3	13.2	7.90B	6.80B	8
9	7.20B	5.40B	5.40B	4.80B	13.3	86.9	73.2	40.0	21.5	13.0	7.70B	6.60B	9
10	7.30B	5.25B	5.20B	5.10B	13.3	103	69.7	40.1	21.3	13.2	7.50B	6.40B	10
11	7.40B	5.15B	5.00B	5.70B	13.6	115	66.1	39.5	21.2	13.0	7.90B	6.20B	11
12	7.45B	5.00B	4.80B	7.09B	14.1	91.2	66.5	39.9	21.6	12.5	9.10B	6.00B	12
13	7.45B	4.90B	4.65B	7.45B	14.1	79.7	67.6	41.6	21.5	12.1	8.80B	5.70B	13
14	7.45B	4.85B	4.55B	6.93B	16.1	68.6	65.1	40.4	19.5	11.1	7.75B	5.40B	14
15	7.40B	4.80B	4.50B	7.86	16.4	73.7	58.2	39.7	19.1	10.9	6.73B	5.20B	15
16	7.35B	4.85B	4.45B	7.50	15.6	90.6	56.9	38.9	19.3	11.6	6.46B	5.00B	16
17	7.30B	4.90B	4.40B	7.63	15.9	107	54.7	39.5	19.4	10.5	6.50B	4.80B	17
18	7.25B	5.00B	4.30B	8.79	17.7	105	49.9	38.9	18.0	11.2	6.50B	4.60B	18
19	7.19B	5.10B	4.20B	10.1	17.8	91.1	53.4	37.4	17.1	10.8	6.35B	4.60B	19
20	7.00B	5.30B	4.10B	10.8	20.4	89.1	49.2	34.7	16.7	10.0	5.24B	4.20B	20
21	6.90B	5.55B	4.00B	10.7	21.4	84.9	44.2	33.7	16.2	10.5	4.96B	4.10B	21
22	6.75B	5.70B	4.00B	10.8	20.3	97.9	42.5	32.8	15.7	10.8	4.85B	4.00B	22
23	6.60B	5.80B	4.10B	10.6	22.7	118	41.5	31.3	15.7	9.93	4.30B	4.10B	23
24	6.40B	6.00B	4.15B	11.0	39.0	121	46.0	31.5	16.2	10.4	4.20B	4.30B	24
25	6.30B	6.05B	4.20B	10.2	284	121	64.1	29.6	16.8	11.0	4.10B	4.40B	25
26	6.10B	6.15B	4.40B	9.69	370	107	68.1	30.1	16.7	11.6	4.00B	4.50B	26
27	6.00B	6.30B	4.60B	9.01	162	97.7	61.1	27.2	16.2	11.1	4.80B	4.60B	27
28	5.85B	6.40B	4.90B	8.37	124	88.1	58.0	25.6	15.6	11.3	6.07B	4.50B	28
29	5.66B		5.20B	8.32	132	78.0	56.2	24.4	15.0	10.7	6.60B	4.40B	29
30	5.55B		5.20B	8.14	206	74.8	54.5	24.9	14.5	10.3	6.65B	4.20B	30
31	5.50B		5.10B		183		54.3	25.7		10.7	6.60B	4.10B	31
												4.10B	
TOTAL	206.84	152.95	154.06	223.53	1 880.43	3 710.7	1 922.4	1 164.2	571.6	370.83	205.02	160.80	TOTAL
MEAN	6.67	5.46	4.97	7.45	60.7	124	62.0	37.6	19.1	12.0	6.83	5.19	MEAN
MAX	7.45	6.40	6.40	11.0	370	395	91.9	57.1	24.6	15.8	10.4	6.80	MAX
MIN	5.50	4.80	4.00	4.40	8.72	68.6	41.5	24.4	14.5	9.93	4.00	4.00	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 29.4
MAXIMUM DAILY, 395 ON JUN 02
MINIMUM DAILY, 4.00B ON MAR 21
MAXIMUM INSTANTANEOUS,
693 AT 23:40 MST ON JUN 01

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 38 46 N
LONG 115 01 00 W
DRAINAGE AREA, 2 250 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARKS.

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	17 900	JUL	166 000
FEB	13 200	AUG	101 000
MAR	13 300	SEP	49 400
APR	19 300	OCT	32 000
MAY	162 000	NOV	17 700
JUN	321 000	DEC	13 900

TOTAL DISCHARGE, 927 000 dam³

RED DEER RIVER NEAR BINDLOSS - STATION NO. 05CK004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	17.3B	15.1B	16.6B	88.1	77.9	290	153	109	67.7	32.7	21.0	11.4B	1
2	18.6B	15.2B	17.3B	85.4	80.0	279	143	109	70.2	31.4	20.0	12.0B	2
3	19.7B	15.0B	18.1B	167	79.5	319	136	106	67.9	30.8	19.0 B	12.3B	3
4	20.3B	15.1B	20.2B	242	78.9	395	124	106	60.9	31.6	18.5 B	12.9B	4
5	20.6B	15.2B	22.4B	275	77.4	620	122	102	55.8	31.6	18.0 B	12.1B	5
6	20.3B	13.6B	22.6B	265	74.3	919	124	98.9	53.2	32.1	17.0 B	12.1B	6
7	19.6B	12.3B	23.3B	237	72.3	828	339	97.0	52.2	32.2	15.9 B	14.1B	7
8	19.1B	13.1B	24.4B	215	72.8	571	591	96.5	50.5	33.0	14.8 B	17.0B	8
9	18.7B	13.6B	25.3B	169	83.1	502	558	94.4	49.4	34.3	14.1 B	19.5B	9
10	19.2B	14.3B	29.3B	139	88.6	435	499	88.1	47.9	34.7	13.9 B	19.9B	10
11	18.7B	15.2B	32.3B	121	86.6	381	486	84.0	47.5	35.0	14.8 B	20.7B	11
12	18.2B	15.0B	28.2B	109	80.1	332	416	75.3	46.8	34.0	12.6 B	20.5B	12
13	18.1B	14.9B	28.3B	99.1	72.3	286	357	68.6	46.2	31.9	15.5 B	22.0B	13
14	18.3B	14.7B	28.3B	95.1	68.9	284	315	66.6	44.1	32.4	21.5 B	22.3B	14
15	18.1B	14.7B	29.4B	90.5	65.3	336	280	69.5	43.3	30.7	19.5 B	21.7B	15
16	17.6B	14.5B	34.7B	85.3	62.8	472	222	69.4	42.2	29.5	15.2 B	21.7B	16
17	17.1B	14.6B	36.1B	81.2	59.0	528	177	70.0	41.7	29.3	17.7 B	20.8B	17
18	17.0B	14.8B	35.7B	76.4	59.0	480	156	69.1	41.0	28.7	14.0 B	20.3B	18
19	15.8B	15.0B	39.7B	78.3	60.6	414	143	65.0	40.4	27.5	11.0 B	18.7B	19
20	15.3B	14.2B	44.1B	80.6	58.3	352	139	69.7	39.3	26.3	9.24B	18.2B	20
21	16.5B	13.7B	41.0B	79.9	57.9	331	131	88.6	38.6	25.7	9.15B	17.3B	21
22	16.6B	14.0B	40.1B	78.4	58.6	312	125	81.3	38.2	25.5	9.20B	15.2B	22
23	16.2B	13.8B	50.4B	78.9	59.1	266	124	80.2	38.0	24.8	9.40B	16.4B	23
24	15.7B	13.3B	62.9B	75.9	63.0	231	122	101	37.7	25.0	9.60B	17.8B	24
25	14.9B	13.1B	60.8B	73.5	67.5	198	122	103	37.3	24.4	9.70B	16.9B	25
26	13.9B	13.5B	62.3B	71.0	66.5	171	122	105	36.6	23.4	9.90B	16.2B	26
27	14.3B	14.2B	75.7B	72.9	67.7	151	118	81.5	36.1	23.1	10.4 B	16.1B	27
28	15.3B	15.4B	102 B	77.0	91.9	157	108	71.1	35.5	22.8	10.8 B	16.0B	28
29	15.9B		103 B	73.9	124	158	99.6	70.7	33.8	22.3	12.3 B	15.8B	29
30	16.1B		92.1	73.8	248	157	105	72.0	32.6	22.6	12.1 B	15.6B	30
31	15.8B		88.6		289		108	69.6		22.6		14.8B	31
TOTAL	538.8	401.1	1 335.2	3 556.2	2 650.9	11 155	6 764.6	2 646.1	1 372.3	890.6	425.79	528.3	TOTAL
MEAN	17.4	14.3	43.1	119	85.5	372	218	85.4	45.7	28.7	14.2	17.0	MEAN
MAX	20.6	15.4	103	275	289	919	591	109	70.2	35.0	21.5	22.3	MAX
MIN	13.9	12.3	16.6	71.0	57.9	151	99.6	65.0	32.6	22.3	9.15	11.4	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 88.4
MAXIMUM DAILY, 919 ON JUN 06
MINIMUM DAILY, 9.15B ON NOV 21
MAXIMUM INSTANTANEOUS,
997 AT 16:34 MST ON JUN 06

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 54 10 N
LONG 110 17 50 W
DRAINAGE AREA, 44 700 km²

B - ICE CONDITIONS

REGULATED SINCE 1908

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	46 600	JUL	584 000
FEB	34 700	AUG	229 000
MAR	115 000	SEP	119 000
APR	307 000	OCT	76 900
MAY	229 000	NOV	36 800
JUN	964 000	DEC	45 600

TOTAL DISCHARGE, 2 790 000 dam³

REDEARTH CREEK NEAR RED EARTH CREEK - STATION NO. 07JC002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.080B	0.540B	5.88	3.05	2.51	0.137	0.120	0.209	---	---	1
2	---	---	0.080B	0.752B	6.46	3.04	2.88	0.109	0.107	0.228	---	---	2
3	---	---	0.080B	0.570B	6.77	2.99	3.02	0.105	0.111	0.220	---	---	3
4	---	---	0.080B	1.38 B	7.00	2.89	3.14	0.096	0.110	0.209	---	---	4
5	---	---	0.080B	2.01 B	7.12	2.92	3.26	0.076	0.116	0.213	---	---	5
6	---	---	0.086B	2.14 B	7.12	2.86	3.24	0.070	0.120	0.209	---	---	6
7	---	---	0.084B	2.45 B	7.20	2.76	3.12	0.068	0.110	0.203	---	---	7
8	---	---	0.083B	1.72 B	7.30	2.67	3.04	0.065	0.126	0.210	---	---	8
9	---	---	0.080B	2.24 B	7.30	2.51	2.93	0.061	0.129	0.209	---	---	9
10	---	---	0.084B	1.97 B	7.11	2.36	2.68	0.063	0.149	0.230	---	---	10
11	---	---	0.084B	1.69 B	6.84	2.68	2.24	0.065	0.144	0.218	---	---	11
12	---	---	0.090B	1.27 B	6.45	3.63	1.92	0.062	0.138	0.215	---	---	12
13	---	---	0.096B	0.840B	6.07	4.73	1.68	0.070	0.139	0.220	---	---	13
14	---	---	0.102B	1.23 B	5.69	5.44	1.47	0.059	0.141	0.220	---	---	14
15	---	---	0.105B	1.17 B	5.30	5.95	1.29	0.065	0.144	0.215	---	---	15
16	---	---	0.116B	1.70 B	4.97	6.15	1.15	0.069	0.149	0.207	---	---	16
17	---	---	0.119B	1.55 B	4.77	5.99	1.01	0.064	0.162	0.209	---	---	17
18	---	---	0.125B	1.34 B	4.60	5.65	0.885	0.067	0.152	0.217	---	---	18
19	---	---	0.147B	1.42 B	4.37	5.29	0.815	0.067	0.143	0.217	---	---	19
20	---	---	0.155B	1.81	4.19	4.92	0.727	0.070	0.148	0.209	---	---	20
21	---	---	0.150B	2.53	4.01	4.55	0.644	0.062	0.154	0.205	---	---	21
22	---	---	0.153B	3.06	3.87	4.28	0.575	0.065	0.152	0.212	---	---	22
23	---	---	0.152B	3.31	3.75	3.90	0.501	0.086	0.154	0.213	---	---	23
24	---	---	0.152B	3.67	3.64	3.47	0.471	0.082	0.152	0.210	---	---	24
25	---	---	0.147B	4.31	3.65	3.15	0.428	0.079	0.164	0.214	---	---	25
26	---	---	0.152B	4.68	3.64	3.00	0.400	0.079	0.171	0.216	---	---	26
27	---	0.079B	0.147B	4.89	3.61	2.91	0.359	0.081	0.171	0.215	---	---	27
28	---	0.080B	0.142B	4.82	3.54	2.69	0.299	0.096	0.192	0.211	---	---	28
29	---		0.153B	4.61	3.39	2.39	0.254	0.097	0.197	0.206	---	---	29
30	---		0.167B	4.98	3.22	2.19	0.205	0.107	0.203	0.205A	---	---	30
31	---		0.194B		3.10		0.159	0.108		0.204E		---	31
TOTAL	---	---	3.673	70.652	161.93	110.94	47.302	2.450	4.368	6.598	---	---	TOTAL
MEAN	---	---	0.119	2.36	5.22	3.70	1.53	0.079	0.146	0.213	---	---	MEAN
MAX	---	---	0.194	4.98	7.30	6.15	3.26	0.137	0.203	0.230	---	---	MAX
MIN	---	---	0.080	0.540	3.10	2.19	0.159	0.059	0.107	0.203	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.66
MAXIMUM DAILY, 7.30 ON MAY 08
MINIMUM DAILY, 0.059 ON AUG 14
MAXIMUM INSTANTANEOUS,
7.33 AT 09:00 MST ON MAY 09

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 32 40 N
LONG 115 14 20 W
DRAINAGE AREA, 619 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	4 090
FEB	---	AUG	212
MAR	317	SEP	377
APR	6 100	OCT	570
MAY	14 000	NOV	---
JUN	9 590	DEC	---

TOTAL DISCHARGE, 35 300 dam³

REDEARTH CREEK NEAR THE MOUTH - STATION NO. 05BB005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.873	23.7	18.0	6.71	2.64	1.59	---	---	1
2	---	---	---	---	0.852	22.6	16.6	6.40	2.52	1.59	---	---	2
3	---	---	---	---	0.857	18.6	17.7	5.79	2.45	1.53	---	---	3
4	---	---	---	---	0.991	16.7	15.3	5.30	2.31	2.02	---	---	4
5	---	---	---	---	1.47	13.5	13.7	5.27	2.26	2.72	---	---	5
6	---	---	---	---	2.31	11.5	16.9	5.48	2.22	2.05	---	---	6
7	---	---	---	---	2.27	10.4	19.1	5.64	2.21	1.81	---	---	7
8	---	---	---	---	2.06	9.55	16.7	5.42	2.19	1.69	---	---	8
9	---	---	---	---	1.90	9.80	15.1	5.18	2.16	1.59	---	---	9
10	---	---	---	---	1.81	13.1	14.3	5.04	2.14	1.60	---	---	10
11	---	---	---	---	1.76	17.7	13.5	5.06	2.15	1.52	---	---	11
12	---	---	---	---	1.79	14.4	13.5	5.18	2.18	1.49	---	---	12
13	---	---	---	---	1.70	11.9	13.8	5.25	2.12	1.46	---	---	13
14	---	---	---	---	1.70	10.5	13.1	5.20	2.05	1.40	---	---	14
15	---	---	---	---	1.62	10.8	11.8	5.21	2.03	1.35	---	---	15
16	---	---	---	---	1.60	12.4	10.9	5.00	2.30	1.34	---	---	16
17	---	---	---	---	1.66	14.7	9.90	4.62	2.41	1.25	---	---	17
18	---	---	---	---	1.74	16.4	8.85	4.38	2.19	1.29	---	---	18
19	---	---	---	---	1.79	15.9	8.21	4.24	2.05	1.26	---	---	19
20	---	---	---	---	1.95	16.3	7.50	3.93	1.96	1.13	---	---	20
21	---	---	---	---	2.17	17.9	6.92	3.89	1.90	1.21	---	---	21
22	---	---	---	---	2.21	20.3	6.67	4.10	1.84	1.19	---	---	22
23	---	---	---	1.13 A	2.82	23.8	7.02	3.90	1.82	1.14	---	---	23
24	---	---	---	1.21	4.05	25.6	7.44	3.45	1.85	1.14	---	---	24
25	---	---	---	1.15	7.35	25.0	7.70	3.32	1.86	1.16	---	---	25
26	---	---	---	1.10	11.8	23.7	7.60	3.23	1.88	1.44	---	---	26
27	---	---	---	1.05	11.6	22.0	7.19	2.81	1.84	1.31	---	---	27
28	---	---	---	1.01	11.4	20.3	7.35	2.60	1.77	1.29	---	---	28
29	---	---	---	0.930	13.2	18.5	6.91	2.48	1.70	1.24	---	---	29
30	---		---	0.885	19.7	18.6	6.69	2.70	1.63	1.20A	---	---	30
31	---		---		20.9		6.82	2.78		1.20E		---	31
TOTAL	---	---	---	---	139.903	506.15	352.77	139.56	62.63	45.20	---	---	TOTAL
MEAN	---	---	---	---	4.51	16.9	11.4	4.50	2.09	1.46	---	---	MEAN
MAX	---	---	---	---	20.9	25.6	19.1	6.71	2.64	2.72	---	---	MAX
MIN	---	---	---	---	0.852	9.55	6.67	2.48	1.63	1.13	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 6.77
MAXIMUM DAILY, 25.6 ON JUN 24
MINIMUM DAILY, 0.852 ON MAY 02
MAXIMUM INSTANTANEOUS,
27.4 AT 17:56 MST ON JUN 01

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 13 22 N
LONG 115 46 40 W
DRAINAGE AREA, 147 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	30 500
FEB	---	AUG	12 100
MAR	---	SEP	5 410
APR	---	OCT	3 910
MAY	12 100	NOV	---
JUN	43 700	DEC	---

TOTAL DISCHARGE, 108 000 dam³

REDWATER RIVER NEAR THE MOUTH - STATION NO. 05EC005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.068B	2.70B	1.35	0.106	0.016	0.070	0.018	0.004	0.050A	---	1
2	---	---	0.068B	3.63B	1.28	0.097	0.027	0.064	0.010	0.004	---	---	2
3	---	---	0.068B	4.83B	1.13	0.088	0.083	0.058	0.008	0.004	---	---	3
4	---	---	0.068B	6.48B	1.02	0.090	0.155	0.053	0.007	0.004	---	---	4
5	---	---	0.068B	8.88B	0.985	0.066	0.187	0.052	0.006	0.004	---	---	5
6	---	---	0.068B	8.08B	0.928	0.044	0.201	0.048	0.005	0.003	---	---	6
7	---	---	0.068B	7.28B	0.854	0.032	0.191	0.047A	0.005	0.003	---	---	7
8	---	---	0.068B	6.48B	0.746	0.029	0.184	0.045E	0.005	0.003	---	---	8
9	---	---	0.068B	5.68B	0.631	0.037	0.159	0.043E	0.005	0.003	---	---	9
10	---	---	0.069B	4.88B	0.566	0.038	0.126	0.040E	0.005	0.003	---	---	10
11	---	---	0.069B	4.09B	0.501	0.053	0.109	0.038E	0.004	0.003	---	---	11
12	---	---	0.069B	3.93B	0.458	0.051	0.097	0.036E	0.004	0.003	---	---	12
13	---	---	0.069B	3.77B	0.397	0.044	0.092	0.034E	0.004	0.003	---	---	13
14	---	---	0.063B	3.61B	0.335	0.038	0.097	0.031E	0.004	0.003	---	---	14
15	---	---	0.069B	3.45E	0.315	0.035	0.108	0.029E	0.004	0.003	---	---	15
16	---	---	0.069B	3.29E	0.307	0.032	0.102	0.027E	0.003	0.003	---	---	16
17	---	---	0.075B	3.13E	0.291	0.027	0.091	0.025E	0.003	0.003	---	---	17
18	---	---	0.078B	2.98E	0.288	0.030	0.094	0.022E	0.003	0.003	---	---	18
19	---	---	0.090B	2.83E	0.236	0.032	0.097	0.020E	0.003	0.003	---	---	19
20	---	---	0.145B	2.67E	0.210	0.037	0.094	0.018E	0.003	0.003	---	---	20
21	---	---	0.182B	2.51E	0.196	0.035	0.101	0.015E	0.003	0.004	---	---	21
22	---	---	0.089B	2.35E	0.171	0.034	0.102	0.013E	0.003	0.004	---	---	22
23	---	---	0.083B	2.19E	0.157	0.032	0.104	0.011A	0.003	0.004	---	---	23
24	---	---	0.119B	2.03A	0.263	0.028	0.102	0.008	0.006	0.004	---	---	24
25	---	---	0.189B	1.92E	0.261	0.023	0.098	0.006	0.007	0.004	---	---	25
26	---	---	0.393B	1.80E	0.216	0.021	0.095	0.005	0.007	0.004	---	---	26
27	---	---	0.518B	1.69E	0.199	0.017	0.096	0.004	0.008	0.004	---	---	27
28	---	---	0.906B	1.58E	0.182	0.010	0.091	0.003	0.005	0.019	---	---	28
29	---	---	1.77 B	1.46E	0.165	0.009	0.088	0.003	0.004	0.027	---	---	29
30	---		2.21 B	1.35A	0.150	0.014	0.081	0.003	0.004	0.032	---	---	30
31	---		2.50 B		0.117		0.074	0.016		0.041		---	31
TOTAL	---	---	10.436	111.55	14.905	1.219	3.342	0.887	0.159	0.212	---	---	TOTAL
MEAN	---	---	0.337	3.72	0.481	0.041	0.108	0.029	0.005	0.007	---	---	MEAN
MAX	---	---	2.50	8.88	1.35	0.106	0.201	0.070	0.018	0.041	---	---	MAX
MIN	---	---	0.063	1.35	0.117	0.009	0.016	0.003	0.003	0.003	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.582
MAXIMUM DAILY, 8.88B ON APR 05
MINIMUM DAILY, 0.003 ON AUG 28

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 53 49 N
LONG 112 59 46 W
DRAINAGE AREA, 1 550 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	289
FEB	---	AUG	76.6
MAR	902	SEP	13.7
APR	9 640	OCT	18.3
MAY	1 290	NOV	---
JUN	105	DEC	---

TOTAL DISCHARGE, 12 300 dam³

REDWATER RIVER NEAR VIMY - STATION NO. 05EC007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	4.00 B	0.198	0.005	0	0	0	0	---	---	1
2	---	---	0 B	2.91	0.299	0.003	0.008	0	0	0	---	---	2
3	---	---	0 B	2.74	0.552	0.003	0.101	0	0	0	---	---	3
4	---	---	0 B	2.07	0.634	0.003	0.074	0	0	0	---	---	4
5	---	---	0 B	1.67	0.231	0.004	0.064	0	0	0	---	---	5
6	---	---	0 B	1.41	0.025	0.008	0.054	0	0	0	---	---	6
7	---	---	0 B	1.19	0.012	0.013	0.379	0	0	0	---	---	7
8	---	---	0 B	0.922	0.147	0.016	0.467	0	0	0	---	---	8
9	---	---	0 B	0.746	0.026	0.020	0.508	0	0	0	---	---	9
10	---	---	0 B	0.533	0.022	0.032	0.479	0	0	0	---	---	10
11	---	---	0 B	0.376	0.020	0.043	0.447	0	0	0	---	---	11
12	---	---	0 B	0.232	0.018	0.049	0.342	0	0	0	---	---	12
13	---	---	0 B	0.124	0.016	0.052	0.227	0	0	0	---	---	13
14	---	---	0 B	0.068	0.014	0.052	0.081	0	0	0	---	---	14
15	---	---	0 B	0.051	0.012	0.052	0.016	0	0	0	---	---	15
16	---	---	0 B	0.028	0.012	0.057	0.008	0	0	0.001	---	---	16
17	---	---	0 B	0.027	0.012	0.065	0.005	0	0	0.001	---	---	17
18	---	---	0 B	0.022	0.012	0.065	0.003	0	0	0.001	---	---	18
19	---	---	0 B	0.043	0.012	0.057	0.002	0	0	0.001	---	---	19
20	---	---	0.510B	0.053	0.012	0.047	0.248	0	0	0.001	---	---	20
21	---	---	1.71 B	0.064	0.012	0.020	0.021	0	0	0.001	---	---	21
22	---	---	2.58 B	0.061	0.014	0.015	0.005	0	0	0.001	---	---	22
23	---	---	3.23 B	0.052	0.016	0.010	0.003	0	0	0.001	---	---	23
24	---	---	3.82 B	0.052	0.018	0.010	0.003	0	0	0.001	---	---	24
25	---	---	3.60 B	0.081	0.025	0.003	0.001	0	0	0.001	---	---	25
26	---	---	3.45 B	0.278	0.098	0.001	0.001	0	0	0.001	---	---	26
27	---	---	3.34 B	0.221	0.020	0	0	0	0	0.001	---	---	27
28	---	---	3.26 B	0.167	0.010	0	0	0	0	0.001	---	---	28
29	---	---	4.47 B	0.226	0.008	0	0	0	0	0.001	---	---	29
30	---		5.07 B	0.150	0.008	0	0	0	0	0.001	---	---	30
31	---		4.60 B	0.114	0.050	0	0	0	0	0.001A	---	---	31
			4.23 B		0.015		0	0		0.001E		---	
TOTAL	---	---	43.870	17.941	2.518	0.695	3.544	0	0	0.001E	---	---	TOTAL
MEAN	---	---	1.42	0.598	0.081	0.023	0.114	0	0	0.016	---	---	MEAN
MAX	---	---	5.07	4.00	0.634	0.065	0.508	0	0	0.001	---	---	MAX
MIN	---	---	0	0.022	0.008	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.280
MAXIMUM DAILY, 5.07B ON MAR 29
MINIMUM DAILY, 0B ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 05 39 N
LONG 113 33 59 W
DRAINAGE AREA, 469 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	306
FEB	---	AUG	0
MAR	3 790	SEP	0
APR	1 550	OCT	1.38
MAY	218	NOV	---
JUN	60.0	DEC	---

TOTAL DISCHARGE, 5 930 dam³

REDWILLOW CREEK NEAR RED WILLOW - STATION NO. 05FC005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.001B	4.74	0.113	0.067	0.482	0.044	0.015	0.002	---	---	1
2	---	---	0.001B	3.30	0.129	1.20	0.469	0.041	0.021	0.004	---	---	2
3	---	---	0.001B	2.28	0.131	4.07	0.638	0.038	0.022	0.002	---	---	3
4	---	---	0.001B	1.43	0.113	2.72	0.761	0.031	0.028	0.002	---	---	4
5	---	---	0.002B	1.04	0.105	1.92	0.960	0.028	0.032	0.012	---	---	5
6	---	---	0.002B	0.708	0.144	1.86	0.823	0.023	0.032	0.012	---	---	6
7	---	---	0.002B	0.602	0.227	1.91	4.25	0.022	0.036	0.011	---	---	7
8	---	---	0.002B	0.496	0.523	1.41	4.30	0.020	0.035	0.008	---	---	8
9	---	---	0.002B	0.419	0.502	1.10	1.86	0.021	0.035	0.011	---	---	9
10	---	---	0.002B	0.387	0.205	0.974	1.26	0.019	0.034	0.014	---	---	10
11	---	---	0.002B	0.382	0.215	0.971	0.815	0.017	0.032	0.010	---	---	11
12	---	---	0.002B	0.345	0.269	0.978	0.561	0.015	0.034	0.006	---	---	12
13	---	---	0.002B	0.347	0.240	1.02	0.421	0.015	0.031	0.001	---	---	13
14	---	---	0.002B	0.297	0.175	1.43	0.367	0.017	0.032	0.001	---	---	14
15	---	---	0.002B	0.252	0.148	2.84	0.291	0.022	0.033	0.001	---	---	15
16	---	---	0.003B	0.289	0.150	1.90	0.265	0.032	0.030	0.002	---	---	16
17	---	---	0.004B	0.325	0.130	1.14	0.242	0.034	0.027	0.003	---	---	17
18	---	---	0.006B	0.287	0.106	0.668	0.210	0.031	0.027	0.007	---	---	18
19	---	---	4.34 B	0.210	0.090	0.636	0.195	0.036	0.023	0.004	---	---	19
20	---	---	7.07 B	0.153	0.060	0.616	0.169	0.034	0.022	0.004	---	---	20
21	---	0 B	10.8 B	0.149	0.021	0.574	0.146	0.026	0.014	0.006	---	---	21
22	---	0 B	3.96 B	0.159	0.015	0.528	0.123	0.022	0.002	0.004	---	---	22
23	---	0 B	3.62 B	0.176	0.013	0.444	0.110	0.009	0.002	0.003	---	---	23
24	---	0 B	3.82 B	0.156	0.009	0.449	0.102	0.002	0.002	0.003	---	---	24
25	---	0 B	1.52 B	0.127	0.008	0.435	0.089	0.011	0.002	0.002	---	---	25
26	---	0.001B	1.07 B	0.121	0.012	0.469	0.067	0.017	0.002	0.005	---	---	26
27	---	0.001B	1.47 B	0.127	0.021	0.478	0.073	0.010	0.002	0.017	---	---	27
28	---	0.001B	4.77 B	0.120	0.030	0.488	0.096	0.003	0.002	0.042	---	---	28
29	---		10.5 B	0.119	0.028	0.468	0.078	0.002	0.002	0.092	---	---	29
30	---		7.77	0.119	0.029	0.486	0.063	0.005	0.002	0.093A	---	---	30
31	---		5.78		0.039		0.049	0.010		0.080E		---	31
TOTAL	---	---	62.529	19.662	3.397	34.249	20.335	0.657	0.613	0.464	---	---	TOTAL
MEAN	---	---	2.02	0.655	0.110	1.14	0.656	0.021	0.020	0.015	---	---	MEAN
MAX	---	---	10.8	4.74	0.269	4.07	4.30	0.044	0.036	0.093	---	---	MAX
MIN	---	---	0.001	0.119	0.008	0.067	0.049	0.002	0.002	0.001	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.579
MAXIMUM DAILY, 10.8B ON MAR 21
MINIMUM DAILY, 0.001B ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 31 18 N
LONG 112 23 13 W
DRAINAGE AREA, 825 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 760
FEB	---	AUG	56.8
MAR	5 400	SEP	53.0
APR	1 700	OCT	40.1
MAY	294	NOV	---
JUN	2 960	DEC	---

TOTAL DISCHARGE, 12 300 dam³

REDWILLOW RIVER NEAR BEAVERLODGE - STATION NO. 07GD003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.740B	0.422B	0.800B	2.78B	14.5	35.2 A	5.20E	0.934	0.490	0.204	0.600	0.610B	1
2	0.670B	0.416B	0.850B	3.25B	14.5	33.8 A	5.40E	0.811	0.483	0.207	0.610	0.620B	2
3	0.660B	0.409B	0.860B	3.65B	14.4	30.8 A	5.20E	0.721	0.592	0.210	0.500	0.630B	3
4	0.640B	0.409B	0.880B	3.47B	14.2	35.6 A	10.9 A	0.649	0.880	0.255	0.510	0.620B	4
5	0.600B	0.390B	0.870B	3.57B	14.3	54.3 A	22.0	0.588	0.928	0.270	0.390B	0.610B	5
6	0.560B	0.370B	0.800B	4.81B	14.7	48.6 A	23.8	0.499	0.858	0.297	0.383B	0.600B	6
7	0.530B	0.350B	0.750B	5.19B	15.4	39.4 A	20.8	0.431	0.787	0.311	0.422B	0.580B	7
8	0.530B	0.338B	0.720B	4.72B	15.1	31.8 A	18.5	0.376	0.735	0.312	0.455B	0.540B	8
9	0.520B	0.326B	0.710B	4.14B	14.5	26.0 A	17.8	0.368	0.680	0.317	0.442B	0.520B	9
10	0.520B	0.286B	0.705B	4.66B	14.0	21.7 A	18.2	0.354	0.590	0.321	0.416B	0.500B	10
11	0.530B	0.278B	0.700B	5.09B	14.2	35.0 A	16.8	0.345	0.491	0.327	0.390B	0.494B	11
12	0.550B	0.282B	0.680B	5.89B	14.8	127 A	14.9	0.335	0.436	0.332	0.362B	0.494B	12
13	0.560B	0.286B	0.660B	6.39	15.4	585 A	12.7	0.308	0.397	0.336	0.461B	0.481B	13
14	0.570B	0.286B	0.680B	6.17	16.9	328 A	11.0	0.297	0.373	0.359	0.461B	0.494B	14
15	0.580B	0.290B	0.700B	6.61	17.4	182	9.58	0.287	0.346	0.398	0.429B	0.494B	15
16	0.590B	0.290B	0.760B	6.84	17.5	119	8.08	0.338	0.332	0.441	0.455B	0.500B	16
17	0.600B	0.290B	0.830B	7.23	17.3	82.3	6.97	0.406	0.329	0.474	0.500B	0.500B	17
18	0.610B	0.294B	0.900B	7.34	17.5	59.9	6.07	0.430	0.310	0.451	0.620B	0.500B	18
19	0.620B	0.298B	1.04 B	8.10	18.4	46.7	5.20	0.437	0.285	0.444	0.700B	0.510B	19
20	0.630B	0.302B	1.10 B	9.95	19.3	37.0	4.50	0.381	0.266	0.438	0.700B	0.510B	20
21	0.640B	0.322B	1.08 B	12.6	20.0	27.8 A	3.92	0.461	0.250	0.392	0.680B	0.520B	21
22	0.650B	0.330B	1.01 B	15.5	19.6	22.8	3.40	0.485	0.246	0.430	0.690B	0.520B	22
23	0.620B	0.338B	0.940B	16.6	18.3	19.4	2.84	0.437	0.243	0.454	0.600B	0.520B	23
24	0.630B	0.360B	0.880B	19.1	17.2	14.1	2.39	0.407	0.234	0.400	0.610B	0.520B	24
25	0.600B	0.383B	0.850B	23.4	16.6	10.5	2.22	0.397	0.229	0.466	0.610B	0.520B	25
26	0.580B	0.422B	0.840B	24.9 A	23.4	8.68	2.20	0.434	0.218	0.587	0.620B	0.520B	26
27	0.550B	0.600B	0.850B	23.5 A	34.1	7.12	2.24	0.452	0.208	0.603	0.630B	0.510B	27
28	0.500B	0.700B	0.900B	20.0 A	34.4A	6.42A	1.61	0.451	0.204	0.638	0.640B	0.510B	28
29	0.468B		1.18 B	17.1	33.0A	5.80E	1.40	0.428	0.205	0.684	0.620B	0.510B	29
30	0.442B		1.60 B	15.4	28.5A	5.40E	1.24	0.377	0.204	0.699	0.610B	0.510B	30
31	0.435B		2.40 B		29.8A		1.07	0.453		0.772		0.510B	31
TOTAL	17.925	10.067	28.530	297.95	587.2	2 287.12	267.83	14.077	12.829	12.800	16.116	16.477	TOTAL
MEAN	0.578	0.360	0.920	9.93	18.9	76.2	8.64	0.454	0.428	0.413	0.537	0.532	MEAN
MAX	0.740	0.700	2.40	24.9	34.4	585	23.8	0.934	0.928	0.772	0.700	0.630	MAX
MIN	0.435	0.278	0.660	2.78	14.0	5.40	1.07	0.287	0.204	0.204	0.362	0.481	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 9.78
MAXIMUM DAILY, 585A ON JUN 13
MINIMUM DAILY, 0.204 ON SEP 28
MAXIMUM INSTANTANEOUS
660 AT 05:00 MST ON JUN 13

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 04 55 N
LONG 119 31 30 W
DRAINAGE AREA, 1 610 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 550	JUL	23 100
FEB	870	AUG	1 220
MAR	2 460	SEP	1 110
APR	25 700	OCT	1 110
MAY	50 700	NOV	1 390
JUN	198 000	DEC	1 420

TOTAL DISCHARGE, 309 000 dam³

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARKS.

REESOR RESERVOIR NEAR ELKWATER - STATION NO. 11AB090

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	1 226.406	---	---	---	---	---	---	---	1
2	---	---	---	---	---	---	---	---	---	---	---	---	2
3	---	---	---	---	---	---	---	---	---	---	---	---	3
4	---	---	---	---	---	---	---	---	---	---	---	---	4
5	---	---	---	1 226.448	---	---	1 226.536	---	---	---	---	---	5
6	---	---	---	---	---	1 226.469	---	---	1 226.406	---	---	---	6
7	---	---	1 226.447	---	---	---	---	1 226.513	---	---	---	---	7
8	---	---	1 226.190E1	226.270E1	226.406	1 226.469E1	226.530E1	226.510E1	226.395E1	226.335E	---	---	8
9	---	---	---	---	---	---	---	---	---	1 226.306	---	---	9
10	---	---	---	---	---	---	---	---	---	---	---	---	10
11	---	---	---	---	---	---	---	---	---	---	---	---	11
12	---	---	---	---	---	---	---	---	---	---	---	---	12
13	---	---	---	---	---	---	---	---	---	---	---	---	13
14	---	---	---	---	---	---	---	---	---	---	---	---	14
15	---	---	1 226.455	---	---	---	---	---	---	---	---	---	15
16	---	---	---	---	---	---	---	1 226.469	---	---	---	---	16
17	---	---	---	1 226.389	1 226.379	---	1 226.500	---	1 226.366	---	---	---	17
18	---	---	---	1 226.400E	---	1 226.536	---	---	1 226.360E1	226.326	---	---	18
19	---	---	1 226.160E	---	1 226.440E	---	1 226.495E1	226.455E	---	1 226.325E	---	---	19
20	---	---	---	---	---	---	---	---	---	---	---	---	20
21	---	1 226.227	---	---	---	---	---	---	---	---	---	---	21
22	---	1 226.225E	---	---	---	---	---	---	---	---	---	---	22
23	---	---	---	---	---	---	---	---	---	---	---	---	23
24	---	---	---	---	---	---	---	---	---	---	---	---	24
25	---	---	---	---	---	---	---	---	1 226.350	1 226.320E	---	---	25
26	---	---	1 226.143	---	---	---	---	---	---	---	---	---	26
27	---	---	---	---	---	1 226.558	---	1 226.468	---	---	---	---	27
28	---	1 226.210E	---	1 226.401E	---	1 226.560E	---	---	1 226.345E	---	---	---	28
29	---	---	1 226.135E	---	1 226.469	---	1 226.560E1	226.455E	---	---	---	---	29
30	---	---	---	1 226.405E	---	1 226.555E	---	---	1 226.340E1	226.313	---	---	30
31	---	---	1 226.160E	---	1 226.469E	---	1 226.555	1 226.445E	---	1 226.311E	---	---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MAXIMUM DAILY, 1 226.560E ON JUN 28
MINIMUM DAILY, 999.000 ON JAN 1

TYPE OF GAUGE - MANUAL
LOCATION - LAT 49 39 40 N
LONG 110 05 44 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

DRAINAGE AREA,
3.55 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

REITA CREEK NEAR OUTLET OF ANGLING LAKE - STATION NO. 06AD013

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.001B	0.349B	0.588	0.081	0.025	0.031	0.051	0.013	---	---	1
2	---	---	0.001B	0.480B	0.615	0.081	0.024	0.032	0.050	0.014	---	---	2
3	---	---	0.002B	0.394B	0.626	0.082	0.026	0.034	0.049	0.016	---	---	3
4	---	---	0.002B	0.376B	0.598	0.080	0.016	0.037	0.048	0.018	---	---	4
5	---	---	0.003B	0.472B	0.575	0.089	0.014	0.039	0.048	0.018	---	---	5
6	---	---	0.003B	0.534B	0.541	0.084	0.012	0.043	0.049	0.017	---	---	6
7	---	---	0.002B	0.628B	0.505	0.085	0.011	0.048	0.048	0.018	---	---	7
8	---	---	0.003B	0.696B	0.452	0.085	0.011	0.054	0.047	0.015	---	---	8
9	---	---	0.002B	0.675	0.407	0.086	0.011	0.058	0.046	0.012	---	---	9
10	---	---	0.002B	0.674	0.366	0.092	0.010	0.069	0.045	0.010	---	---	10
11	---	---	0.002B	0.675	0.320	0.098	0.007	0.055	0.043	0.010	---	---	11
12	---	---	0.003B	0.672	0.277	0.084	0.006	0.055	0.042	0.011	---	---	12
13	---	---	0.003B	0.651	0.235	0.068	0.006	0.061	0.041	0.011	---	---	13
14	---	---	0.004B	0.650	0.202	0.076	0.008	0.062	0.040	0.012	---	---	14
15	---	---	0.004B	0.654	0.169	0.065	0.009	0.070	0.039	0.012	---	---	15
16	---	---	0.004B	0.650	0.151	0.061	0.009	0.077	0.039	0.011	---	---	16
17	---	---	0.005B	0.641	0.136	0.058	0.011	0.080	0.037	0.012	---	---	17
18	---	---	0.005B	0.636	0.124	0.056	0.012	0.084	0.033	0.012	---	---	18
19	---	---	0.006B	0.634	0.108	0.048	0.015	0.081	0.034	0.012	---	---	19
20	---	---	0.006B	0.636	0.095	0.060	0.015	0.074	0.034	0.013	---	---	20
21	---	---	0.007B	0.624	0.094	0.064	0.017	0.089	0.035	0.013	---	---	21
22	---	---	0.007B	0.614	0.093	0.060	0.019	0.084	0.035	0.013	---	---	22
23	---	---	0.007B	0.607	0.092	0.052	0.022	0.083	0.034	0.013	---	---	23
24	---	---	0.007B	0.601	0.087	0.043	0.024	0.085	0.034	0.012	---	---	24
25	---	---	0.007B	0.600	0.085	0.047	0.026	0.079	0.034	0.012	---	---	25
26	---	---	0.007B	0.605	0.086	0.045	0.028	0.067	0.033	0.014	---	---	26
27	---	---	0.007B	0.600	0.087	0.039	0.031	0.068	0.033	0.014	---	---	27
28	---	---	0.008B	0.590	0.086	0.034	0.032	0.062	0.038	0.014	---	---	28
29	---	---	0.023B	0.592	0.084	0.032	0.034	0.056	0.154	0.015	---	---	29
30	---		0.183B	0.600	0.084	0.031	0.032	0.054	0.037	0.015A	---	---	30
31	---		0.471B		0.080		0.030	0.052		0.015E		---	31
TOTAL	---	---	0.797	17.810	8.048	1.966	0.553	1.923	1.330	0.417	---	---	TOTAL
MEAN	---	---	0.026	0.594	0.260	0.066	0.018	0.062	0.044	0.014	---	---	MEAN
MAX	---	---	0.471	0.696	0.626	0.098	0.034	0.089	0.154	0.018	---	---	MAX
MIN	---	---	0.001	0.349	0.080	0.031	0.006	0.031	0.033	0.010	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.134
MAXIMUM DAILY, 0.696B ON APR 08
MINIMUM DAILY, 0.001B ON MAR 01
MAXIMUM INSTANTANEOUS,
0.806B AT 18:25 MST ON MAR 31

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 13 45 N
LONG 110 19 45 W
DRAINAGE AREA, 161 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	47.8
FEB	---	AUG	166
MAR	68.9	SEP	115
APR	1 540	OCT	36.0
MAY	695	NOV	---
JUN	170	DEC	---

TOTAL DISCHARGE, 2 840 dam³

RENWICK CREEK NEAR THREE HILLS - STATION NO. 05CE011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.029	0.020	0.041	0.001	0.002	0.005	0	---	---	1
2	---	---	0.040B	0.033	0.020	0.061	0.001	0.001	0.003	0	---	---	2
3	---	---	0.200B	0.029	0.022	0.457	0.004	0.001	0.002	0	---	---	3
4	---	---	0.500B	0.027	0.023	0.259	0.007	0.001	0.001	0	---	---	4
5	---	---	0.300B	0.024	0.024	0.824	0.020	0.001	0.001	0	---	---	5
6	---	---	0.156B	0.020	0.024	0.471	0.013	0	0.001	0	---	---	6
7	---	---	0.120B	0.017	0.024	0.244	0.045	0	0.001	0	---	---	7
8	---	---	0.108B	0.017	0.022	0.123	0.021	0	0	0	---	---	8
9	---	---	0.103B	0.016	0.021	0.058	0.009	0	0	0	---	---	9
10	---	---	0.035B	0.014	0.018	0.032	0.006	0	0	0	---	---	10
11	---	---	0.012B	0.013	0.016	0.028	0.004	0	0	0	---	---	11
12	---	---	0.006B	0.013	0.016	0.587	0.001	0	0	0	---	---	12
13	---	---	0.009B	0.015	0.014	1.01	0.001	0	0	0	---	---	13
14	---	---	0.020B	0.020	0.013	0.320	0.001	0	0	0	---	---	14
15	---	---	0.078B	0.029	0.012	0.107	0.001	0	0	0	---	---	15
16	---	---	0.221B	0.028	0.010	0.038	0	0	0	0	---	---	16
17	---	---	0.164B	0.023	0.009	0.723	0	0	0	0	---	---	17
18	---	---	0.079B	0.019	0.009	0.219	0	0	0	0	---	---	18
19	---	---	0.087B	0.016	0.009	0.048	0	0	0	0	---	---	19
20	---	---	0.047B	0.013	0.008	0.022	0	0	0	0	---	---	20
21	---	---	0.028B	0.011	0.012	0.014	0	0.012	0	0	---	---	21
22	---	OB	0.022B	0.010	0.088	0.009	0	0.007	0	0	---	---	22
23	---	OB	0.012B	0.009	0.255	0.006	0	0.007	0	0	---	---	23
24	---	OB	0.021B	0.009	0.124	0.004	0.002	0.009	0	0	---	---	24
25	---	OB	0.022B	0.009	0.083	0.002	0.003	0.009	0	0	---	---	25
26	---	OB	0.026B	0.016	0.282	0.001	0.003	0.020	0	0	---	---	26
27	---	OB	0.028B	0.019	0.179	0.001	0.010	0.018	0	0	---	---	27
28	---	OB	0.029B	0.020	0.083	0.001	0.009	0.016	0 A	0	---	---	28
29	---		0.026B	0.021	0.047	0.001	0.006	0.018	0	0	---	---	29
30	---		0.034B	0.020	0.055	0.001	0.005	0.011	0	0	---	---	30
31	---		0.031B		0.047		0.003	0.007		0		---	31
TOTAL	---	---	2.564	0.559	1.589	5.712	0.176	0.140	0.014	0	---	---	TOTAL
MEAN	---	---	0.083	0.019	0.051	0.190	0.006	0.005	0.001	0	---	---	MEAN
MAX	---	---	0.500	0.033	0.282	1.01	0.045	0.020	0.005	0	---	---	MAX
MIN	---	---	0	0.009	0.008	0.001	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.044
MAXIMUM DAILY, 1.01 ON JUN 13
MINIMUM DAILY, OB ON MAR 01
MAXIMUM INSTANTANEOUS,
1.96 AT 04:48 MST ON JUN 17

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 43 01 N
LONG 113 21 47 W
DRAINAGE AREA, 57.2 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	15.2
FEB	---	AUG	12.1
MAR	222	SEP	1.21
APR	48.3	OCT	0
MAY	137	NOV	---
JUN	494	DEC	---

TOTAL DISCHARGE, 930 dam³

RIBSTONE CREEK NEAR CZAR - STATION NO. 05FD005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.260E	0.472	0.017	0.001	0	0.004	0	---	---	1
2	---	---	0 B	0.280E	0.454	0.064	0.001	0	0.002	0	---	---	2
3	---	---	0 B	0.340E	0.310	0.076	0.012	0	0.005	0	---	---	3
4	---	---	0 B	0.316A	0.219	0.087	0.011	0	0.005	0	---	---	4
5	---	---	0 B	0.178A	0.190	0.091	0.012	0	0.002	0	---	---	5
6	---	---	0 B	0.156	0.175	0.093	0.027	0	0.002	0	---	---	6
7	---	---	0 B	0.162	0.206	0.076	0.050	0	0.004	0	---	---	7
8	---	---	0.001B	0.208	0.201	0.071	0.057	0	0.002	0	---	---	8
9	---	---	0.003B	0.296	0.176	0.071	0.057	0	0.001	0	---	---	9
10	---	---	0.002B	0.361	0.158	0.078	0.058	0	0.001	0	---	---	10
11	---	---	0.002B	0.419	0.149	0.085	0.051	0	0.001	0	---	---	11
12	---	---	0.003B	0.505	0.140	0.079	0.041	0	0.001	0	---	---	12
13	---	---	0.002B	0.566	0.136	0.093	0.029	0	0.001	0	---	---	13
14	---	---	0.002B	0.600	0.132	0.093	0.020	0	0.001	0	---	---	14
15	---	---	0.005B	0.612	0.129	0.096	0.010	0	0.001	0	---	---	15
16	---	---	0.012B	0.657	0.124	0.089	0.004	0	0.001	0	---	---	16
17	---	---	0.022B	0.685	0.118	0.078	0.003	0	0.001	0	---	---	17
18	---	---	0.030B	0.688	0.112	0.065	0.001	0	0.001	0	---	---	18
19	---	---	0.045B	0.722	0.109	0.053	0.001	0	0.001	0	---	---	19
20	---	OB	0.058B	0.710	0.098	0.044	0.001	0	0.001	0	---	---	20
21	---	OB	0.054B	0.687	0.086	0.036	0.001	0	0.001	0	---	---	21
22	---	OB	0.050B	0.656	0.080	0.029	0.001	0	0.001	0	---	---	22
23	---	OB	0.040B	0.677	0.070	0.022	0.001	0	0.001	0	---	---	23
24	---	OB	0.033B	0.661	0.058	0.017	0.001	0	0.001	0	---	---	24
25	---	OB	0.035B	0.620	0.050	0.013	0.001	0	0.001	0	---	---	25
26	---	OB	0.036B	0.579	0.045	0.007	0	0	0.001	0	---	---	26
27	---	OB	0.076B	0.555	0.039	0.003	0	0	0.001	0	---	---	27
28	---	OB	0.151B	0.537	0.032	0.002	0	0	0.001	0	---	---	28
29	---		0.175B	0.499	0.028	0.001	0	0.001	0.001	DA	---	---	29
30	---		0.200B	0.474	0.025	0.001	0	0.025	0.001	OE	---	---	30
31	---		0.235E		0.019		0	0.005		OE		---	31
TOTAL	---	---	1.272	14.666	4.340	1.620	0.452	0.031	0.048	0	---	---	TOTAL
MEAN	---	---	0.041	0.489	0.140	0.054	0.015	0.001	0.002	D	---	---	MEAN
MAX	---	---	0.235	0.722	0.472	0.096	0.058	0.025	0.005	0	---	---	MAX
MIN	---	---	0	0.156	0.019	0.001	0	0	0.001	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.092
MAXIMUM DAILY, 0.722 ON APR 19
MINIMUM DAILY, OB ON MAR 01
MAXIMUM INSTANTANEOUS,
0.734 AT 03:11 MST ON APR 19

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 29 17 N
LONG 110 44 15 W
DRAINAGE AREA, 1 830 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	39.0
FEB	---	AUG	2.68
MAR	110	SEP	4.15
APR	1 270	OCT	0
MAY	375	NOV	---
JUN	140	DEC	---

TOTAL DISCHARGE, 1 940 dam³

RIBSTONE CREEK NEAR EDGERTON - STATION NO. 05FD001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.004B	0	1.40	0.002	0.397	0.180	0.031	---	---	1
2	---	---	0 B	0.004B	0	1.47	0.002	0.387	0.165	0.027	---	---	2
3	---	---	0 B	0.002B	0	1.41	0.017	0.389	0.155	0.024	---	---	3
4	---	---	0 B	0.002B	0	1.36	0.022	0.375	0.145	0.022	---	---	4
5	---	---	0 B	0.003B	0	1.46	0.040	0.365	0.135	0.022	---	---	5
6	---	---	0 B	0.004B	0	1.67	0.049	0.364	0.125	0.020	---	---	6
7	---	---	0 B	0.004B	0	1.61	0.082	0.363	0.118	0.017	---	---	7
8	---	---	0 B	0.005B	0	1.40	0.226	0.352	0.115	0.016	---	---	8
9	---	---	0 B	0.005B	0.001	0.728	0.307	0.345	0.110	0.016	---	---	9
10	---	---	0 B	0.004B	0.002	0.478	0.295	0.335	0.105	0.012	---	---	10
11	---	---	0 B	0.003B	0.002	0.364	0.276	0.326	0.100	0.009	---	---	11
12	---	---	0 B	0.003B	0.002	0.289	0.297	0.319	0.095	0.009	---	---	12
13	---	---	0 B	0.003B	0.002	0.231	0.325	0.312	0.090	0.007	---	---	13
14	---	---	0 B	0.002B	0.002	0.169	0.326	0.302	0.085	0.005	---	---	14
15	---	---	0 B	0.001	0.020	0.108	0.314	0.294	0.080	0.003	---	---	15
16	---	---	0 B	0.001	0.109	0.102	0.320	0.290	0.075	0.001	---	---	16
17	---	---	0 B	0.001	0.194	0.132	0.350	0.282	0.070	0.001	---	---	17
18	---	---	0 B	0.001	0.270	0.087	0.375	0.276	0.065	0.001	---	---	18
19	---	---	0.002B	0.001	0.371	0.061	0.414	0.272	0.060	0.001	---	---	19
20	---	OB	0.005B	0.001	0.473	0.047	0.418	0.271	0.058	0.001	---	---	20
21	---	OB	0.003B	0.001	0.595	0.038	0.419	0.269	0.056	0.001	---	---	21
22	---	OB	0.003B	0	0.861	0.035	0.412	0.267	0.055	0.001	---	---	22
23	---	OB	0.003B	0	1.57	0.028	0.406	0.269	0.055	0.001	---	---	23
24	---	OB	0.002B	0	1.92	0.017	0.402	0.271	0.055	0.001	---	---	24
25	---	OB	0.002B	0	2.39	0.010	0.391	0.273	0.053	0.001	---	---	25
26	---	OB	0.003B	0	2.14	0.006	0.403	0.275	0.053	0.001	---	---	26
27	---	OB	0.003B	0	1.94	0.003	0.416	0.273	0.048	0.001	---	---	27
28	---	OB	0.005B	0	1.78	0.002	0.413	0.253	0.042	0.001	---	---	28
29	---		0.005B	0	1.66	0.006	0.407	0.234	0.038	0.001	---	---	29
30	---		0.004B	0	1.55	0.002	0.391	0.220	0.035	0.001E	---	---	30
31	---		0.004B		1.46		0.386	0.200		0.001E		---	31
TOTAL	---	---	0.044	0.055	19.314	14.723	8.903	9.420	2.621	0.256	---	---	TOTAL
MEAN	---	---	0.0C:	0.002	0.623	0.491	0.287	0.304	0.087	0.008	---	---	MEAN
MAX	---	---	0.005	0.005	2.39	1.67	0.419	0.397	0.180	0.031	---	---	MAX
MIN	---	---	0	0	0	0.002	0.002	0.200	0.035	0.001	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.226
MAXIMUM DAILY, 2.39 ON MAY 25
MINIMUM DAILY, OB ON MAR 01
MAXIMUM INSTANTANEOUS,
2.59 AT 00:39 MST ON MAY 25

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 45 18 N
LONG 110 29 00 W
DRAINAGE AREA, 2 810 km²

B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	769
FEB	---	AUG	814
MAR	3.80	SEP	226
APR	4.75	OCT	22.1
MAY	1 670	NOV	---
JUN	1 270	DEC	---

TOTAL DISCHARGE, 4 780 dam³

RIBSTONE CREEK TRIBUTARY NEAR CORONATION - STATION NO. 05FD006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.795	0.001	0	0	0	0	0	---	---	1
2	---	---	0 B	0.614	0.001	0	0	0	0	0	---	---	2
3	---	---	0 B	0.337	0.001	0	0	0	0	0	---	---	3
4	---	---	0 B	0.149	0.001	0.001	0	0	0	0	---	---	4
5	---	---	0 B	0.076	0.001	0.004	0	0	0	0	---	---	5
6	---	---	0 B	0.044	0.001	0.010	0	0	0	0	---	---	6
7	---	---	0 B	0.045	0.001	0.016	0	0	0	0	---	---	7
8	---	---	0 B	0.028	0.001	0.016	0	0	0	0	---	---	8
9	---	---	0.001B	0.026	0.001	0.030	0	0	0	0	---	---	9
10	---	---	0.006B	0.037	0.001	0.025	0	0	0	0	---	---	10
11	---	---	0.004B	0.036	0.001	0.016	0	0	0	0	---	---	11
12	---	---	0.002B	0.024	0.001	0.010	0	0	0	0	---	---	12
13	---	---	0.002B	0.021	0.001	0.007	0	0	0	0	---	---	13
14	---	---	0.002B	0.020	0.001	0.005	0	0	0	0	---	---	14
15	---	---	0.004B	0.023	0.002	0.004	0	0	0	0	---	---	15
16	---	---	0.006B	0.018	0.002	0.003	0	0	0	0	---	---	16
17	---	---	0.011B	0.015	0.002	0.002	0	0	0	0	---	---	17
18	---	---	0.023B	0.015	0.002	0.001	0	0	0	0	---	---	18
19	---	---	0.030B	0.015	0.002	0.001	0	0	0	0	---	---	19
20	---	OB	0.043B	0.009	0.002	0.001	0	0	0	0	---	---	20
21	---	OB	0.052B	0.011	0.001	0	0	0	0	0	---	---	21
22	---	OB	0.040B	0.011	0	0	0	0	0	0	---	---	22
23	---	OB	0.029B	0.010	0	0	0	0	0	0	---	---	23
24	---	OB	0.021B	0.008	0	0	0	0	0	0	---	---	24
25	---	OB	0.021B	0.007	0	0	0	0	0	0	---	---	25
26	---	OB	0.016B	0.004	0	0	0	0	0	0	---	---	26
27	---	OB	0.016B	0.003	0	0	0	0	0	0	---	---	27
28	---	OB	0.091B	0.002	0	0	0	0	0	0	---	---	28
29	---		0.736B	0.001	0	0	0	0	0	0	---	---	29
30	---		1.40 B	0.001	0	0	0	0	0	OA	---	---	30
31	---		0.986		0		0	0		OE	---	---	31
TOTAL	---	---	3.544	2.403	0.027	0.152	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.114	0.080	0.001	0.005	0	0	0	0	---	---	MEAN
MAX	---	---	1.40	0.795	0.002	0.030	0	0	0	0	---	---	MAX
MIN	---	---	0	0.001	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.025
MAXIMUM DAILY, 1.40B ON MAR 30
MINIMUM DAILY, OB ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 10 47 N
LONG 111 14 15 W
DRAINAGE AREA, 331 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	306	SEP	0
APR	208	OCT	0
MAY	2.33	NOV	---
JUN	13.1	DEC	---

TOTAL DISCHARGE, 529 dam³

RICHARDSON RIVER NEAR THE MOUTH - STATION NO. 07DD002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	14.0B	16.7B	35.2	18.9	15.3	13.4	13.1	13.8	---	---	1
2	---	---	14.0B	17.3B	34.6	18.7	15.2	13.4	13.1	13.8	---	---	2
3	---	---	14.2B	17.8B	32.8	18.2	15.0	13.3	13.0	14.0	---	---	3
4	---	---	14.3B	18.1B	31.7	18.0	15.0	13.1	13.0	14.3	---	---	4
5	---	---	14.4B	18.5B	30.8	17.7	15.2	13.1	13.0	14.4	---	---	5
6	---	---	14.4B	18.8B	29.9	17.3	15.3	13.2	12.9	14.4	---	---	6
7	---	---	14.5B	19.1B	29.3	17.0	15.2	13.1	12.9	14.4	---	---	7
8	---	---	14.6B	19.3B	29.1	16.8	14.9	13.2	12.9	14.4	---	---	8
9	---	---	14.6B	19.4B	29.1	16.7	14.7	13.1	13.0	14.3	---	---	9
10	---	---	14.7B	19.3B	29.0	16.6	14.7	13.2	13.1	14.3	---	---	10
11	---	---	15.0B	18.9B	28.4	17.0	14.6	13.1	13.3	14.2	---	---	11
12	---	---	15.3B	18.7B	27.6	18.6	14.4	13.0	13.7	14.2	---	---	12
13	---	---	15.9B	18.5B	26.5	19.6	14.4	13.1	13.8	14.2	---	---	13
14	---	---	16.5B	17.9B	25.4	20.2	14.3	12.7	14.1	14.3	---	---	14
15	---	---	17.2B	17.6B	24.7	20.7	14.2	12.6	14.2	14.2	---	---	15
16	---	---	17.7B	17.0B	23.8	20.7	14.0	12.6	14.3	14.2	---	---	16
17	---	---	17.9B	16.5B	23.1	20.3	14.1	12.7	14.4	13.6B	---	---	17
18	---	---	18.1B	17.2B	22.6	19.7	14.6	12.6	14.5	13.2B	---	---	18
19	---	---	18.3B	18.0B	22.1	19.2	14.9	12.7	14.4	13.4B	---	---	19
20	---	---	18.2B	19.2B	21.9	18.7	15.1	12.7	14.3	14.0B	---	---	20
21	---	---	18.1B	19.5B	21.9	18.2	15.4	12.6	14.3	14.2B	---	---	21
22	---	---	18.2B	19.1B	22.2	18.0	15.4	12.8	14.2	14.4B	---	---	22
23	---	---	18.3B	20.7B	22.5	17.6	15.3	12.7	14.2	14.0B	---	---	23
24	---	---	18.2B	22.8B	22.6	17.0	14.8	12.8	14.3	13.8B	---	---	24
25	---	---	17.8B	25.0B	22.4	16.5	14.5	12.6	14.2	13.6B	---	---	25
26	---	---	17.5B	27.5B	22.1	16.1	14.3	12.8	14.1	13.4B	---	---	26
27	---	---	17.2B	30.2B	21.6	15.9	14.3	13.0	14.0	13.3B	---	---	27
28	---	14.1B	16.8B	32.5B	21.3	15.5	13.9	13.0	14.0	13.2B	---	---	28
29	---		16.6B	35.4B	20.4	15.5	13.7	13.0	13.9	13.0B	---	---	29
30	---		16.6B	35.7	19.9	15.7	13.5	12.9	13.8	12.9B	---	---	30
31	---		16.6B		19.4		13.3	13.2		12.8B		---	31
TOTAL	---	---	505.7	632.2	793.5	536.6	453.5	401.3	412.0	430.2	---	---	TOTAL
MEAN	---	---	16.3	21.1	25.6	17.9	14.6	12.9	13.7	13.9	---	---	MEAN
MAX	---	---	18.3	35.7	35.2	20.7	15.4	13.4	14.5	14.4	---	---	MAX
MIN	---	---	14.0	16.5	19.4	15.5	13.3	12.6	12.9	12.8	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 17.0
MAXIMUM DAILY, 35.7 ON APR 30
MINIMUM DAILY, 12.6 ON AUG 15
MAXIMUM INSTANTANEOUS,
36.0 AT 14:35 MST ON APR 29

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 21 48 N
LONG 111 14 14 W
DRAINAGE AREA, 2 700 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	39 200
FEB	---	AUG	34 700
MAR	43 700	SEP	35 600
APR	54 600	OCT	37 200
MAY	68 600	NOV	---
JUN	46 400	DEC	---

TOTAL DISCHARGE, 360 000 dam³

RIVIERE DES ROCHERS ABOVE SLAVE RIVER - STATION NO. 07NA001

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	206.876	---	208.486A	208.647	207.285	206.793	206.889	206.252	207.889	1
2	---	---	---	206.977	---	208.447	208.573	207.163	206.710	206.969	206.381	207.895	2
3	207.515A	---	---	207.043	---	208.539	208.580	207.318	206.639	207.017	206.469	207.896	3
4	207.612	---	---	207.096	---	208.588	208.485	207.369	206.571	206.990	206.585	207.920	4
5	207.683	---	---	207.161	---	208.623	208.416	207.360	206.602	206.965	206.623	208.000	5
6	207.754	---	---	207.255	---	208.828	208.347	207.306	206.640	206.957	206.612	208.031	6
7	207.814	---	---	207.387	---	209.100	208.287	207.036	206.710	206.930	206.656	208.052	7
8	207.858	---	207.202A	207.517	---	209.060	208.213	207.114	206.798	206.878	206.868	208.032	8
9	207.870	---	207.189	207.634	---	209.065	208.165	207.165	206.847	206.840	207.151	207.970	9
10	207.858	---	207.180	207.695	207.839A	208.959	208.185	207.147	206.865	206.913	207.114	207.876	10
11	207.770	---	207.198	207.725	207.847	209.086	208.249	207.065	206.881	209.027A	207.208	207.810	11
12	207.701	---	207.215	207.734	207.905	209.096	208.328	206.960	206.931	207.103	207.506	207.749	12
13	207.652	---	207.228	207.759	207.977	---	208.252	206.897	206.850	207.162	207.699	207.699	13
14	207.601	---	207.214	207.780	208.061	---	208.132	206.820	206.866	207.071	207.792	207.656	14
15	207.581	---	207.169	207.797	---	208.701A	208.205	206.799	206.854	207.020	207.895	207.626	15
16	207.588	---	207.123	207.844	---	---	208.189	206.925	206.827	207.015	208.010	207.586	16
17	207.652	---	207.069	207.895	---	---	208.124	207.006	206.765	207.043	208.085	207.526	17
18	207.734	---	207.037	207.938	---	---	208.096	207.006	206.698	207.017	208.145	207.488	18
19	207.767	---	206.995	207.982	---	210.217A	208.131	206.992	206.841	207.003	208.215	207.462	19
20	207.816	---	206.947	207.971	---	---	208.125	206.978	206.965	206.950	208.242	---	20
21	207.815	---	206.894	207.934	---	---	208.087	206.950	206.997	206.944	208.231	---	21
22	207.803	---	206.833	207.885	---	---	208.004	206.997	206.988	206.996	208.187	---	22
23	207.791	---	206.781	207.834	---	---	207.889	206.930	207.037	206.906	208.126	---	23
24	207.761	---	206.747	207.722	---	---	207.776	206.862	207.019	206.847	208.056	---	24
25	207.734	---	206.720	207.357	---	209.143A	207.668	206.935	206.962	206.814	207.974	---	25
26	207.699	---	206.720	207.213	---	209.065A	207.632	206.948	206.940	206.831	207.907	---	26
27	---	---	206.720	---	---	208.956	207.592	206.878	206.945	206.797	207.875	---	27
28	---	---	206.705	---	---	208.860	207.540	206.791	206.851	206.178	207.837	---	28
29	---		206.717	---	---	208.755	207.508	206.758	206.753	205.993	207.826	---	29
30	---		206.735	---	---	208.688	207.432	206.745	206.829	206.039	207.860	---	30
31	---		206.792		---		207.403	206.813		206.125		---	31
MEAN	---	---	---	---	---	---	208.073	207.010	206.832	206.911	207.514	---	MEAN
MAX	---	---	---	---	---	---	208.647	207.369	207.037	207.027	208.242	---	MAX
MIN	---	---	---	---	---	---	207.403	206.745	206.571	205.993	206.252	---	MIN

WATER LEVELS IN METRES

MINIMUM DAILY, 205.993 ON OCT 29

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 59 30 N
LONG 111 24 00 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1967

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

RIVIERE DES ROCHERS EAST OF LITTLE RAPIDS - STATION NO. 07NA007

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	209.074	209.497	209.119	208.998	208.831	208.181	207.285	1
2	---	---	---	---	---	208.928	209.473	209.061	208.928	208.951	208.163	207.323	2
3	208.483A	---	---	---	---	208.986	209.537	209.268	208.916	208.872	208.155	207.361	3
4	208.486	---	---	208.274A	---	208.974	209.406	209.244	208.945	208.801	208.152	207.364	4
5	208.512	---	---	---	---	208.965	209.365	209.256	208.989	208.733	208.115	207.364	5
6	208.535	---	---	---	---	209.021	209.371	209.206	208.917	208.696	208.128	207.389	6
7	208.547	---	---	---	---	209.203	209.387	208.926	208.809	208.683	208.037	207.417	7
8	208.555	---	208.219A	---	---	209.151	209.400	209.218	208.903	208.643	208.029	207.430	8
9	208.554	---	208.203	---	---	209.217	209.432	209.236	208.907	208.596	207.924	207.463	9
10	208.542	---	208.238	---	208.605A	209.174	209.370	209.234	208.940	208.671	207.839	207.497	10
11	208.501	---	208.236	---	---	209.527	209.330	209.194	208.954	208.733	207.766	207.538	11
12	208.515	---	208.230	---	---	209.494	209.379	209.168	208.995	208.847	207.766	207.584	12
13	208.504	---	---	---	---	209.184	209.146	209.166	208.870	208.773	207.701	207.618	13
14	208.480	---	---	---	---	209.123	209.136	209.158	208.873	208.642	207.599	207.648	14
15	208.458	---	---	---	208.797A	209.161	209.322	209.151	208.872	208.640	207.556	207.656	15
16	208.462	---	---	---	---	209.582	209.386	209.219	208.860	208.644	207.501	207.718	16
17	208.471	---	---	---	208.748	209.840	209.362	209.193	208.763	208.635	207.422	207.752	17
18	208.506	---	---	---	208.758	209.939	209.383	209.074	208.808	208.635	207.349	207.767	18
19	208.509	---	---	---	208.803	209.882	209.391	209.089	208.926	208.510	207.292	207.799	19
20	208.520	---	---	---	208.812	209.704	209.369	209.041	208.855	208.459	207.250	207.826	20
21	208.491	---	---	---	208.804	209.645	209.366	209.085	208.838	208.494	207.229	207.864	21
22	208.496	---	---	---	208.814	209.661	209.362	209.157	208.779	208.484	207.213	207.887	22
23	208.478	---	---	---	208.807	209.648	209.365	208.957	208.838	208.339	207.216	207.887	23
24	208.476	---	---	---	208.823	209.527	209.332	208.894	208.756	208.308	207.215	207.870	24
25	208.473	---	---	---	208.830	209.561	209.342	209.016	208.728	208.318	207.204	207.860	25
26	---	---	---	---	208.868	209.551	209.335	209.012	208.761	208.312	207.215	207.898	26
27	---	---	---	---	209.046	209.516	209.320	208.987	208.799	208.349	207.248	207.928	27
28	---	---	---	---	208.963	209.444	209.294	208.987	208.771	208.291	207.259	207.932	28
29	---		---	---	208.905	209.416	209.320	209.043	208.618	208.047	207.264	207.953	29
30	---		---	---	208.809	209.469	209.271	209.046	208.747	208.209	207.272	207.961	30
31	---		---		209.046		209.320	209.063		208.176		207.956	31
MEAN	---	---	---	---	---	209.306	209.357	209.112	208.855	208.559	207.609	207.671	MEAN
MAX	---	---	---	---	---	209.939	209.537	209.268	208.998	208.951	208.181	207.961	MAX
MIN	---	---	---	---	---	208.928	209.136	208.894	208.618	208.047	207.204	207.285	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 209.939 ON JUN 18

MAXIMUM INSTANTANEOUS,
210.000 AT 11:30 MST ON JUN 18

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 54 55 N
LONG 111 10 30 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1967

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

RIVIERE DES ROCHERS WEST OF LITTLE RAPIDS - STATION NO. 07NA008

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	208.523	208.746	207.444	206.989	206.962	206.500	207.478	1
2	---	---	---	---	---	208.461	208.676	207.313	206.907	207.071	206.548	207.475	2
3	207.638A	---	---	---	---	208.540	208.712	207.474	206.834	207.122	206.621	207.485	3
4	207.708	---	---	---	---	208.591	208.581	207.533	206.752	207.065	206.673	207.496	4
5	207.769	---	---	207.171A	---	208.639	208.525	207.544	206.789	207.009	206.710	207.453	5
6	207.834	---	---	207.223	---	208.816	208.474	207.480	206.812	206.973	206.706	207.420	6
7	207.890	---	---	207.330	---	209.071	208.442	207.197	206.856	206.930	206.736	207.409	7
8	207.939	---	207.204A	207.474	---	209.046	208.363	207.287	206.941	206.871	206.783	207.409	8
9	207.955	---	---	207.586	---	209.065	208.316	207.351	206.991	206.838	206.867	207.462	9
10	207.934	---	---	207.644	207.865A	208.998	208.337	207.330	207.021	206.920	207.003	207.555	10
11	207.860	---	---	207.676	207.911E	209.174	208.384	207.260	207.049	206.986	207.191	207.631	11
12	207.809	---	---	207.692	207.960E	209.185	208.460	207.183	207.062	207.038	207.450	207.688	12
13	207.765	---	---	207.706	208.015E	208.879	208.351	207.103	206.980	207.096	207.625	207.745	13
14	207.721	---	---	207.727	208.085E	208.763	208.245	207.050	206.968	207.031	207.721	207.791	14
15	207.688	---	---	207.716	208.212A	208.813	208.344	207.037	206.954	206.974	207.826	207.823	15
16	207.705	---	---	207.682	208.132	209.627	208.346	207.140	206.948	206.975	207.916	207.849	16
17	207.755	---	---	207.632	208.155	210.102	208.278	207.220	206.904	206.942	207.976	207.911	17
18	207.822	---	---	207.594	208.191	210.254	208.257	207.213	206.837	206.907	208.034	---	18
19	207.884	---	---	207.545	208.286	210.067	208.264	207.175	206.995	206.881	208.094	---	19
20	207.911	---	---	207.540	208.355	209.729	208.262	207.162	207.088	206.874	208.109	---	20
21	207.907	---	---	207.566	208.385	209.571	208.235	207.129	207.115	206.862	208.090	---	21
22	207.892	---	---	207.618	208.408	209.495	208.160	207.200	207.114	206.879	208.034	---	22
23	207.878	---	---	207.676	208.418	209.415	208.066	207.132	207.153	206.790	207.977	---	23
24	207.854	---	---	207.752	208.393	209.256	207.952	207.028	207.101	206.697	207.898	---	24
25	207.830	---	---	208.037	208.339	209.203	207.858	207.094	207.047	206.645	207.798	---	25
26	---	---	---	208.213	208.302	209.111	207.811	207.170	207.029	206.659	207.668	---	26
27	---	---	---	208.384	208.266	209.015	207.776	207.066	207.043	206.627	207.603	---	27
28	---	---	---	---	208.260	208.923	207.739	206.998	206.973	206.614	207.557	---	28
29	---		---	---	208.241	208.835	207.698	206.958	206.816	206.592	207.521	---	29
30	---		---	---	208.251	208.781	207.618	206.958	206.905	206.510	207.506	---	30
31	---		---		208.380		207.606	207.000		206.522		---	31
MEAN	---	---	---	---	---	209.132	208.222	207.200	206.966	206.867	207.425	---	MEAN
MAX	---	---	---	---	---	210.254	208.746	207.544	207.153	207.122	208.109	---	MAX
MIN	---	---	---	---	---	208.461	207.606	206.958	206.752	206.510	206.500	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 210.254 ON JUN 18

MAXIMUM INSTANTANEOUS,
210.301 AT 16:30 MST ON JUN 18

TYPE OF GAUGE - MANUAL
LOCATION - LAT 58 55 35 N
LONG 111 12 15 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1967

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

ROBERT CREEK NEAR ANZAC - STATION NO. 07CE004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.110B	0.730	0.711	0.278	0.091	0.039	0.035	---	---	1
2	---	---	0 B	0.140E	0.744	0.855	0.373	0.087	0.045	0.055	---	---	2
3	---	---	0 B	0.185B	0.869	0.759	0.360	0.083	0.043	0.088	---	---	3
4	---	---	0.001B	0.100B	1.14	0.666	0.359	0.081	0.040	0.094	---	---	4
5	---	---	0.002B	0.115B	1.52	0.634	0.370	0.078	0.039	0.086	---	---	5
6	---	---	0.002B	0.095B	1.61	0.685	0.384	0.075	0.041	0.077	---	---	6
7	---	---	0.003B	0.060B	1.95	0.653	0.376	0.071	0.040	0.073	---	---	7
8	---	---	0.003B	0.047B	1.88	0.655	0.380	0.068	0.038	0.070	---	---	8
9	---	---	0.002B	0.035B	2.13	0.664	0.358	0.067	0.036	0.074	---	---	9
10	---	---	0.003B	0.030B	2.20	0.767	0.348	0.066	0.036	0.085	---	---	10
11	---	---	0.002B	0.031B	1.98	1.32	0.349	0.065	0.032	0.101	---	---	11
12	---	---	0.003B	0.034B	1.77 A	1.93	0.294	0.060	0.039	0.101	---	---	12
13	---	---	0.003B	0.030B	1.59	1.50	0.269	0.056A	0.046	0.103	---	---	13
14	---	---	0.004B	0.028B	1.44	1.18	0.247	0.052E	0.042	0.100	---	---	14
15	---	---	0.004B	0.027B	1.46	0.950	0.240	0.049E	0.039	0.089	---	---	15
16	---	---	0.003B	0.032B	1.44	0.812	0.215	0.047E	0.033	0.079	---	---	16
17	---	---	0 B	0.043B	1.37	0.738	0.191	0.045E	0.036	0.074	---	---	17
18	---	---	0.001B	0.070B	1.33	0.713	0.192	0.043E	0.038	0.075	---	---	18
19	---	---	0.001B	0.120B	1.33	0.675	0.195	0.042E	0.039	0.076	---	---	19
20	---	---	0.001B	0.180B	1.32	0.617	0.194	0.040E	0.040	0.077	---	---	20
21	---	---	0 B	0.280B	1.31	0.537	0.184	0.039A	0.036	0.075B	---	---	21
22	---	---	0 B	0.400B	1.27	0.445	0.166	0.069	0.037	0.076B	---	---	22
23	---	---	0 B	0.591B	1.18	0.373	0.147	0.133	0.035	0.080B	---	---	23
24	---	---	0 B	1.34 B	1.11	0.312	0.135	0.096	0.034	0.082B	---	---	24
25	---	---	0 B	3.29 B	1.06	0.247	0.134	0.068	0.032	0.084B	---	---	25
26	---	---	0 B	1.40 B	1.00	0.187	0.127	0.053	0.030	0.083B	---	---	26
27	---	---	0 B	0.880B	0.956	0.176	0.118	0.049	0.029	0.080B	---	---	27
28	---	---	0.001B	0.800B	0.894	0.183	0.113	0.043	0.033	0.076B	---	---	28
29	---	---	0.048B	0.760B	0.833	0.185	0.105	0.037	0.034	0.079B	---	---	29
30	---		0.110B	0.749	0.766	0.198	0.099	0.033	0.033	0.077B	---	---	30
31	---		0.160B		0.710		0.091	0.035		0.074B		---	31
TOTAL	---	---	0.357	12.002	40.892	20.327	7.391	1.921	1.114	2.478	---	---	TOTAL
MEAN	---	---	0.012	0.400	1.32	0.678	0.238	0.062	0.037	0.080	---	---	MEAN
MAX	---	---	0.160	3.29	2.20	1.93	0.384	0.133	0.046	0.103	---	---	MAX
MIN	---	---	0	0.027	0.710	0.176	0.091	0.033	0.029	0.035	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.353
MAXIMUM DAILY, 3.29B ON APR 25
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
3.98 AT 05:45 MST ON APR 25

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 23 01 N
LONG 111 01 42 W
DRAINAGE AREA, 54.1 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	639
FEB	---	AUG	166
MAR	30.8	SEP	96.2
APR	1 040	OCT	214
MAY	3 530	NOV	---
JUN	1 760	DEC	---

TOTAL DISCHARGE, 7 480 dam³

ROLPH CREEK NEAR KIMBALL - STATION NO. 05AE005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.329B	0.396	0.347	1.02	0.110	0.133	0.085	0.056	0.040A	---	1
2	---	---	0.269B	0.401	0.388	0.947	0.113	0.126	0.081	0.056	---	---	2
3	---	---	0.425B	0.382	0.439	0.843	0.123	0.124	0.074	0.054	---	---	3
4	---	---	0.570B	0.365	0.453	0.737	0.106	0.123	0.070	0.055	---	---	4
5	---	---	0.537B	0.343	0.455	0.610	0.111	0.137	0.071	0.063	---	---	5
6	---	---	0.516B	0.321	0.425	0.512	0.131	0.133	0.068	0.067	---	---	6
7	---	---	0.812B	0.291	0.391	0.438	0.136	0.119	0.065	0.070	---	---	7
8	---	---	0.745B	0.283	0.381	0.372	0.136	0.108	0.060	0.075	---	---	8
9	---	---	0.650B	0.272	0.370	0.316	0.133	0.099	0.058	0.078	---	---	9
10	---	---	0.528B	0.270	0.378	0.270	0.122	0.094	0.055	0.089	---	---	10
11	---	---	0.451B	0.268	0.375	0.235	0.116	0.090	0.053	0.091	---	---	11
12	---	---	0.248B	0.261	0.391	0.203	0.108	0.088	0.052	0.090	---	---	12
13	---	---	0.098B	0.257	0.376	0.220	0.099	0.085	0.051	0.096	---	---	13
14	---	---	0.146B	0.299	0.368	0.244	0.095	0.079	0.049	0.090	---	---	14
15	---	---	0.210B	0.345	0.353	0.248	0.091	0.078	0.049	0.090	---	---	15
16	---	---	0.287B	0.344	0.354	0.252	0.089	0.077	0.049	0.090	---	---	16
17	---	---	0.231B	0.342	0.369	0.237	0.090	0.079	0.048	0.075	---	---	17
18	---	---	0.272B	0.333	0.373	0.214	0.095	0.083	0.055	0.074	---	---	18
19	---	---	0.368	0.315	0.374	0.190	0.108	0.088	0.059	0.068	---	---	19
20	---	---	1.51	0.305	0.366	0.176	0.115	0.090	0.059	0.077	---	---	20
21	---	---	1.89	0.290	0.371	0.176	0.123	0.092	0.061	0.082	---	---	21
22	---	---	0.769B	0.278	0.354	0.203	0.122	0.092	0.061	0.093	---	---	22
23	---	---	0.759B	0.269	0.355	0.199	0.119	0.098	0.061	0.076	---	---	23
24	---	---	0.666B	0.263	0.361	0.175	0.117	0.103	0.059	0.074	---	---	24
25	---	---	0.552B	0.257	0.421	0.160	0.135	0.109	0.056	0.070	---	---	25
26	---	---	0.390B	0.269	0.466	0.148	0.153	0.113	0.053	0.063	---	---	26
27	---	---	0.319	0.272	0.483	0.142	0.165	0.115	0.053	0.052	---	---	27
28	---	0.636B	0.355	0.299	0.496	0.133	0.168	0.112	0.051	0.047	---	---	28
29	---		0.373	0.315	1.76	0.122	0.165	0.106	0.051	0.047	---	---	29
30	---		0.398	0.312	1.59	0.116	0.155	0.102	0.054	0.041	---	---	30
31	---		0.418		1.09		0.145	0.093		0.041		---	31
TOTAL	---	---	16.111	9.217	15.473	9.856	3.794	3.168	1.771	2.190	---	---	TOTAL
MEAN	---	---	0.520	0.307	0.499	0.329	0.122	0.102	0.059	0.071	---	---	MEAN
MAX	---	---	1.89	0.401	1.76	1.02	0.168	0.137	0.085	0.096	---	---	MAX
MIN	---	---	0.098	0.257	0.347	0.116	0.089	0.077	0.048	0.041	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.251
MAXIMUM DAILY, 1.89 ON MAR 21
MINIMUM DAILY, 0.041 ON OCT 30
MAXIMUM INSTANTANEOUS,
4.42 AT 23:44 MST ON MAR 20

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 07 30 N
LONG 113 08 30 W
DRAINAGE AREA, 221 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	328
FEB	---	AUG	274
MAR	1 390	SEP	153
APR	796	OCT	189
MAY	1 340	NOV	---
JUN	852	DEC	---

TOTAL DISCHARGE, 5 320 dam³

ROMEO CREEK ABOVE ROMEO LAKE - STATION NO. 07BB903

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.760B	0.093	0	0	0	0	0	---	---	1
2	---	---	---	0.850B	0.090	0	0	0	0	0	---	---	2
3	---	---	---	0.944B	0.077	0	0	0.001	0	0	---	---	3
4	---	---	---	0.613E	0.070	0	0.626	0.004	0	0	---	---	4
5	---	---	---	0.504B	0.069	0	1.57	0.002	0	0	---	---	5
6	---	---	---	0.419B	0.042	0	0.617	0.001	0	0	---	---	6
7	---	---	---	0.356B	0.033	0	0.229	0.001	0	0	---	---	7
8	---	---	0.378B	0.323B	0.023	0	0.113	0	0	0	---	---	8
9	---	---	---	0.270B	0.008	0	0.062	0	0	0	---	---	9
10	---	---	---	0.223B	0	0	0.028	0	0	0	---	---	10
11	---	---	---	0.179B	0	0	0.019	0	0	0	---	---	11
12	---	---	---	0.143B	0	0	0.081	0	0	0	---	---	12
13	---	---	---	0.139	0	0	0.049	0	0	0	---	---	13
14	---	---	---	0.140	0	0	0.014	0	0	0	---	---	14
15	---	---	---	0.148	0	0	0.008	0	0	0	---	---	15
16	---	---	0.224B	0.154	0	0	0.006	0	0	0	---	---	16
17	---	---	---	0.165	0	0	0.004	0	0	0B	---	---	17
18	---	---	---	0.164	0	0	0.001	0	0	0B	---	---	18
19	---	---	---	0.172	0	0	0	0	0	0B	---	---	19
20	---	---	---	0.170	0	0	0.004	0	0	0B	---	---	20
21	---	---	---	0.167	0	0	0.003	0	0	0B	---	---	21
22	---	---	---	0.164	0	0	0.001	0	0	0B	---	---	22
23	---	---	---	0.157	0	0	0.019	0	0	0B	---	---	23
24	---	---	---	0.148	0	0	0.012	0	0	0B	---	---	24
25	---	---	---	0.145	0	0	0.009	0	0	0B	---	---	25
26	---	---	---	0.144	0	0	0.009	0	0	0B	---	---	26
27	---	---	---	0.136	0	0	0.003	0	0	0B	---	---	27
28	---	---	0.439B	0.120	0	0	0.002	0	0	0B	---	---	28
29	---	---	---	0.101	0	0	0.002	0	0	0B	---	---	29
30	---		0.570B	0.094	0	0	0.001	0	0	0B	---	---	30
31	---		---		0		0.001E	0.001E		0B		---	31
TOTAL	---	---	---	8.212	0.505	0	3.493	0.010	0	0	---	---	TOTAL
MEAN	---	---	---	0.274	0.016	0	0.113	0	0	0	---	---	MEAN
MAX	---	---	---	0.944	0.093	0	1.57	0.004	0	0	---	---	MAX
MIN	---	---	---	0.094	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 1.57 ON JUL 05
MINIMUM DAILY, 0 ON MAY 10
MAXIMUM INSTANTANEOUS,
1.96 AT 04:43 MST ON JUL 05

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 04 20 N
LONG 114 54 05 W
DRAINAGE AREA, 115 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	302
FEB	---	AUG	0.864
MAR	---	SEP	0
APR	710	OCT	0
MAY	43.6	NOV	---
JUN	0	DEC	---

RONALANE WASTEWAY NEAR HAYS - STATION NO. 05BN007

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.000	1.093	1.081	1.084	1.088	1.049	1.013A	---	1
2	---	---	---	---	0.000	1.086	1.095	1.116	1.079	1.088	---	---	2
3	---	---	---	---	0.000	1.104	1.101	1.030	1.105	1.070	---	---	3
4	---	---	---	---	0.000	1.097	1.096	1.044	1.095	1.074	---	---	4
5	---	---	---	---	0.000	1.036	1.049	1.082	1.095	1.042	---	---	5
6	---	---	---	---	0.000	1.031	1.082	1.057	1.125	1.017	---	---	6
7	---	---	---	---	0.000	1.062	1.105	1.077	1.097	1.019	---	---	7
8	---	---	---	---	0.000	1.083	1.089	1.087	1.049	1.054	---	---	8
9	---	---	---	---	0.000	1.101	1.152	1.026	1.018	1.062	---	---	9
10	---	---	---	---	0.000	1.107	1.048	1.022	1.018	1.051	---	---	10
11	---	---	---	---	0.000	1.105	1.061	1.091	1.035	1.090	---	---	11
12	---	---	---	---	0.000	1.125	1.109	1.084	1.030	1.076	---	---	12
13	---	---	---	---	0.000	1.097	1.132	1.036	1.076	1.030	---	---	13
14	---	---	---	---	0.000	1.081	1.069	1.049	1.093	0.985	---	---	14
15	---	---	---	---	0.000	1.103	1.036	1.035	1.018	0.968	---	---	15
16	---	---	---	---	0.000	1.087	1.031	1.016	1.054	1.021	---	---	16
17	---	---	---	---	0.953	1.131	1.018	1.079	1.082	1.033	---	---	17
18	---	---	---	---	1.075	1.115	1.075	1.109	1.076	1.023	---	---	18
19	---	---	---	---	1.080	1.099	1.131	1.108	1.076	1.019	---	---	19
20	---	---	---	---	1.065	1.136	1.132	1.089	1.088	1.017	---	---	20
21	---	---	---	---	1.091	1.099	1.079	1.064	1.062	1.020	---	---	21
22	---	---	---	---	1.064	1.108	1.059	1.075	1.014	1.013	---	---	22
23	---	---	---	---	1.050	1.070	1.113	1.098	1.011	1.015	---	---	23
24	---	---	---	0.000A	1.066	1.101	1.096	1.082	1.070	1.029	---	---	24
25	---	---	---	0.000	1.099	1.113	1.021	1.072	1.077	1.028	---	---	25
26	---	---	---	0.000	1.054	1.093	1.063	1.070	1.035	1.022	---	---	26
27	---	---	---	0.000	1.018	1.054	1.094	1.074	1.035	1.014	---	---	27
28	---	---	---	0.000	1.039	1.066	1.118	1.034	1.053	1.019	---	---	28
29	---		---	0.000	1.096	1.060	1.109	1.021	1.079	1.012	---	---	29
30	---		---	0.000	1.116	1.039	1.089	1.073	1.066	1.028	---	---	30
31	---		---		1.079		1.047	1.098		1.019		---	31
MEAN	---	---	---	---	0.514	1.089	1.083	1.067	1.063	1.032	---	---	MEAN
MAX	---	---	---	---	1.116	1.136	1.152	1.116	1.125	1.090	---	---	MAX
MIN	---	---	---	---	0.000	1.031	1.018	1.016	1.011	0.968	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 1.152 ON JUL 09
MINIMUM DAILY, 0.000A ON APR 23

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 02 40 N
LONG 111 35 00 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

WATER LEVELS ARE REFERRED TO ASSUMED DATUM
APPLY 710.569 m ADJUSTMENT TO CONVERT TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

ROSE CREEK NEAR ALDER FLATS - STATION NO. 05DE007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.203B	6.00B	6.26	11.0	3.29	0.744	0.769	0.176	---	---	1
2	---	---	0.203B	8.00B	5.64	8.69	3.02	0.703	0.889	0.168	---	---	2
3	---	---	0.203B	10.0 B	5.29	7.46	110	0.776	0.741	0.171	---	---	3
4	---	---	0.203B	9.00B	4.95	9.70	149	0.859	0.602	0.203	---	---	4
5	---	---	0.203B	7.37B	4.65	26.9	50.8	0.738	0.520	0.351	---	---	5
6	---	---	0.203B	4.74B	4.27	26.8	43.2	0.626	0.467	0.543	---	---	6
7	---	---	0.203B	4.28B	3.88	18.1	56.3	0.544	0.450	0.530	---	---	7
8	---	---	0.203B	4.10B	4.70	13.7	34.7	0.476	0.436E	0.497	---	---	8
9	---	---	0.203B	3.50B	6.61	10.8	21.0	0.886	0.422E	0.425	---	---	9
10	---	---	0.207B	3.00B	6.72	8.65	13.3	0.940	0.407E	0.465	---	---	10
11	---	---	0.300B	2.90B	6.25	40.6	9.05	0.739	0.393E	0.548	---	---	11
12	---	---	0.400B	3.20B	5.46	114	6.35	0.705	0.379E	0.543	---	---	12
13	---	---	0.350B	4.45B	4.92	88.7	4.86	0.746	0.365E	0.504	---	---	13
14	---	---	0.300B	5.02B	4.55	57.5	4.00	0.566	0.351E	0.487	---	---	14
15	---	---	0.268B	5.90	4.38	30.6	3.24	0.559	0.336E	0.458	---	---	15
16	---	---	0.293B	5.65	4.17	19.5	3.80	0.557	0.322E	0.428	---	---	16
17	---	---	0.304B	5.06	4.05	15.0	5.09	0.510	0.308E	0.414	---	---	17
18	---	---	0.390B	5.11	4.28	11.4	3.93	0.504	0.294E	0.400	---	---	18
19	---	---	0.772B	5.20	4.53	9.81	3.10	0.488	0.280E	0.390	---	---	19
20	---	---	1.10 B	5.41	4.39	8.75	2.64	0.484	0.265E	0.384	---	---	20
21	---	---	0.992B	5.90	6.95	7.24	2.34	0.431	0.251E	0.380	---	---	21
22	---	---	0.916B	5.51	22.8	5.55	2.02	0.413	0.237E	0.379	---	---	22
23	---	---	0.820B	6.55	18.5	4.56	1.68	0.501	0.223E	0.380	---	---	23
24	---	---	0.772B	9.43	14.7	6.44	1.51	0.565	0.209E	0.360	---	---	24
25	---	---	0.613B	10.4	40.1	7.43	1.38	0.565	0.194	0.358	---	---	25
26	---	---	0.400B	9.88	38.7	4.97	1.34	0.564	0.197	0.362	---	---	26
27	---	---	0.600B	9.02	23.2	4.32	1.86	0.562	0.194	0.360	---	---	27
28	---	---	1.00 B	8.60	15.8	4.61	1.36	0.565	0.185	0.354	---	---	28
29	---	---	1.50 B	7.82	12.1	5.18	1.07	0.559	0.176	0.358A	---	---	29
30	---		2.50 B	6.86	12.0	4.10	0.895	0.557	0.175	0.356E	---	---	30
31	---		4.00 B		13.4		0.836	0.543		0.354E		---	31
TOTAL	---	---	20.624	187.86	318.20	592.06	546.761	18.967	11.037	12.086	---	---	TOTAL
MEAN	---	---	0.665	6.26	10.3	19.7	17.6	0.612	0.368	0.390	---	---	MEAN
MAX	---	---	4.00	10.4	40.1	114	149	0.940	0.889	0.548	---	---	MAX
MIN	---	---	0.203	2.90	3.88	4.10	0.836	0.413	0.175	0.168	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 6.97
MAXIMUM DAILY, 149 ON JUL 04
MINIMUM DAILY, 0.168 ON OCT 02
MAXIMUM INSTANTANEOUS,
184 AT 07:07 MST ON JUL 04

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 55 48 N
LONG 115 00 36 W
DRAINAGE AREA, 551 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	47 200
FEB	---	AUG	1 640
MAR	1 780	SEP	954
APR	16 200	OCT	1 040
MAY	27 500	NOV	---
JUN	51 200	DEC	---

TOTAL DISCHARGE, 148 000 dam³

ROSEBUD RIVER AT REDLAND - STATION NO. 05CE005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.883B	1.80 B	0.526	6.13	2.35	3.19	2.36	1.70	---	---	1
2	---	---	1.42 B	1.69 B	0.523	5.36	2.62	3.16	2.16	1.93	---	---	2
3	---	---	1.76 B	1.76 B	0.552	4.43	2.89	3.12	2.00	2.41	---	---	3
4	---	---	1.70 B	1.98 B	0.503	4.58	2.86	3.19	1.85	2.67	---	---	4
5	---	---	1.47 B	1.81 B	0.478	11.9	2.80	3.29	1.79	2.58	---	---	5
6	---	---	1.40 B	1.64	0.473	16.5	2.78	3.10	1.72	2.11	---	---	6
7	---	---	1.18 B	1.43	0.437	11.9	2.97	2.94	1.57	1.64	---	---	7
8	---	---	0.968B	1.31	1.24	8.89	3.23	2.74	1.44	1.20	---	---	8
9	---	---	0.673B	1.19	1.66	7.65	3.81	2.56	1.34	0.873	---	---	9
10	---	---	0.946B	0.982B	1.66	6.66	3.86	2.37	1.31	0.684	---	---	10
11	---	---	0.763B	0.953B	1.34	5.84	3.21	2.25	1.36	0.602	---	---	11
12	---	---	0.427B	0.947B	1.18	5.51	2.80	2.22	1.43	0.540	---	---	12
13	---	---	0.303B	0.922	1.36	5.72	2.56	2.29	1.44	0.504	---	---	13
14	---	---	0.313B	0.867	1.68	5.80	2.15	2.21	1.22	0.440	---	---	14
15	---	---	0.451B	0.799	1.85	5.98	1.98	2.19	1.53	0.364	---	---	15
16	---	---	0.851B	0.752	1.74	8.26	2.02	2.16	1.47	0.382	---	---	16
17	---	---	1.56 B	0.691	1.56	8.00	2.33	2.26	1.52	0.308	---	---	17
18	---	---	1.71 B	0.620	1.47	8.26	2.54	2.42	1.52	0.346	---	---	18
19	---	---	2.53 B	0.561	1.88	7.08	2.78	2.70	1.62	0.321	---	---	19
20	---	---	2.80 B	0.530	1.98	6.08	3.50	2.91	1.73	0.283	---	---	20
21	---	---	1.24 B	0.503	2.18	5.41	4.04	3.00	1.69	0.278	---	---	21
22	---	0 B	0.135B	0.505	2.71	4.50	4.35	2.96	1.55	0.304	---	---	22
23	---	0 B	0.412B	0.487	2.96	3.94	4.32	3.35	1.45	0.256	---	---	23
24	---	1.15 B	0.500B	0.452	2.83	3.48	4.06	3.91	1.31	0.271	---	---	24
25	---	1.43 B	0.700B	0.472	2.85	3.19	3.81	3.70	1.17	0.277	---	---	25
26	---	0.432B	1.47 B	0.512	3.14	2.86	3.63	3.65	1.16	0.257	---	---	26
27	---	0.506B	1.53 B	0.504	3.92	2.70	3.29	3.68	1.22	0.234	---	---	27
28	---	0.680B	2.03 B	0.495	4.37	2.46	3.61	3.53	1.22	0.233	---	---	28
29	---		1.80 B	0.535	4.23	2.53	3.63	3.30	1.36	0.209	---	---	29
30	---		1.49 B	0.556	4.63	2.45	3.50	2.97	1.44	0.193	---	---	30
31	---		1.53 B		5.75		3.39	2.72		0.191A		---	31
TOTAL	---	---	36.945	28.255	63.662	184.05	98.05	90.04	46.25	24.590	---	---	TOTAL
MEAN	---	---	1.19	0.942	2.05	6.14	3.16	2.90	1.54	0.793	---	---	MEAN
MAX	---	---	2.80	1.98	5.75	16.5	4.35	3.91	2.36	2.67	---	---	MAX
MIN	---	---	0.135	0.452	0.437	2.45	1.98	2.16	1.16	0.191	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.33
MAXIMUM DAILY, 16.5 ON JUN 06
MINIMUM DAILY, 0.135B ON MAR 22
MAXIMUM INSTANTANEOUS,
17.4 AT 11:36 MST ON JUN 06

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 17 36 N
LONG 113 00 38 W
DRAINAGE AREA, 3 580 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	8 470
FEB	---	AUG	7 780
MAR	3 190	SEP	4 000
APR	2 440	OCT	2 120
MAY	5 500	NOV	---
JUN	15 900	DEC	---

TOTAL DISCHARGE, 49 400 dam³

ROSEBUD RIVER BELOW CARSTAIRS CREEK - STATION NO. 05CE006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.118B	0.986	0.122	1.35	0.521	0.102	0.067	0	---	---	1
2	---	---	0.120B	0.920	0.140	2.85	0.477	0.138	0.058	0	---	---	2
3	---	---	0.125B	0.741	0.161	11.1	0.527	0.124	0.051	0	---	---	3
4	---	---	0.130B	0.642	0.146	8.40	0.645	0.106	0.045	0	---	---	4
5	---	---	0.300B	0.499	0.126	4.40	0.736	0.076	0.035	0	---	---	5
6	---	---	0.462B	0.361	0.111	3.37	0.695	0.061	0.027	0	---	---	6
7	---	---	0.506B	0.291	0.097	2.88	0.654	0.052	0.021	0.001	---	---	7
8	---	---	0.464B	0.262	0.096	2.28	0.550	0.046	0.015	0.001	---	---	8
9	---	---	0.588B	0.239	0.094	1.98	0.433	0.036	0.016	0.001	---	---	9
10	---	---	0.686B	0.206	0.104	1.72	0.376	0.028	0.012	0.001	---	---	10
11	---	---	0.545B	0.184	0.080	1.50	0.332	0.019	0.009	0	---	---	11
12	---	---	0.320B	0.180	0.079	1.53	0.301	0.012	0.015	0	---	---	12
13	---	---	0.265B	0.172	0.076	3.40	0.317	0.007	0.029	0.001	---	---	13
14	---	---	0.386B	0.165	0.073	4.79	0.270	0.002	0.032	0.001	---	---	14
15	---	---	0.716B	0.151	0.074	4.36	0.229	0.001	0.028	0.002	---	---	15
16	---	---	0.575B	0.140	0.080	3.43	0.216	0.001	0.019	0.004	---	---	16
17	---	---	0.604B	0.142	0.085	3.01	0.210	0.017	0.015	0.006	---	---	17
18	---	---	0.505B	0.134	0.097	2.17	0.193	0.057	0.012	0.008	---	---	18
19	---	---	0.575B	0.121	0.117	1.57	0.204	0.060	0.010	0.008	---	---	19
20	---	---	1.02 B	0.116	0.109	1.36	0.183	0.051	0.007	0.010	---	---	20
21	---	---	1.38 B	0.114	0.133	1.21	0.198	0.040	0.005	0.011	---	---	21
22	---	0 B	1.56 B	0.117	0.162	1.12	0.197	0.032	0.002	0.016	---	---	22
23	---	0 B	1.33 B	0.096	0.289	0.974	0.145	0.035	0.001	0.020	---	---	23
24	---	0.005B	1.03 B	0.086	0.470	0.896	0.119	0.046	0.001	0.024	---	---	24
25	---	0.020B	0.824B	0.092	0.507	0.819	0.105	0.050	0	0.027	---	---	25
26	---	0.040B	0.700B	0.097	0.600	1.04	0.115	0.064	0	0.026	---	---	26
27	---	0.060B	0.580B	0.100	0.675	0.866	0.123	0.068	0	0.035	---	---	27
28	---	0.080B	0.542B	0.109	0.670	0.689	0.113	0.060	0	0.025	---	---	28
29	---	---	0.571B	0.113	0.706	0.762	0.088	0.059	0	0.026	---	---	29
30	---	---	0.708B	0.128	0.764	0.634	0.063	0.090	0	0.026	---	---	30
31	---		0.838B		0.912		0.069	0.077		0.029A		---	31
TOTAL	---	---	19.075	7.704	7.955	76.460	9.426	1.617	0.532	0.309	---	---	TOTAL
MEAN	---	---	0.615	0.257	0.257	2.55	0.304	0.052	0.018	0.010	---	---	MEAN
MAX	---	---	1.56	0.986	0.912	11.1	0.736	0.138	0.067	0.035	---	---	MAX
MIN	---	---	0.118	0.086	0.073	0.634	0.069	0.001	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.502
MAXIMUM DAILY, 11.1 ON JUN 03
MINIMUM DAILY, 0 ON SEP 25
MAXIMUM INSTANTANEOUS,
13.2 AT 18:29 MST ON JUN 03

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 25 00 N
LONG 113 43 35 W
DRAINAGE AREA, 753 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	814
FEB	---	AUG	140
MAR	1 650	SEP	46.0
APR	666	OCT	26.7
MAY	687	NOV	---
JUN	6 610	DEC	---

TOTAL DISCHARGE, 10 600 dam³

ROSS CREEK AT MEDICINE HAT - STATION NO. 05AH049

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.104	0.193E	0.230	0.306	0.213	0.466	0.082A	---	1
2	---	---	---	---	0.100	0.169E	0.169	0.599	0.149	0.579	---	---	2
3	---	---	---	---	0.149	0.156E	0.183	0.548	0.139	0.619	---	---	3
4	---	---	---	---	0.839	0.166E	0.176	0.446	0.163	0.501	---	---	4
5	---	---	---	---	1.01	0.153E	0.187	0.339	0.145	0.575	---	---	5
6	---	---	---	---	0.892	0.130E	0.202	0.182	0.178	0.614	---	---	6
7	---	---	---	---	0.943	0.180E	0.140	0.199	0.112	0.676	---	---	7
8	---	---	---	---	0.913	0.138	0.087	0.258	0.128	0.473	---	---	8
9	---	---	---	---	0.843	0.110	0.070	0.282	0.119	0.335	---	---	9
10	---	---	---	---	0.769	0.176	0.092	0.138	0.128	0.157	---	---	10
11	---	---	---	---	0.545	0.308	0.089	0.117	0.287	0.589	---	---	11
12	---	---	---	---	0.505	0.398	0.107	0.179	0.246	0.365	---	---	12
13	---	---	---	---	0.492	0.591	0.161	0.285	0.162	0.323	---	---	13
14	---	---	---	---	0.440	0.415	0.162	0.222	0.137	0.195	---	---	14
15	---	---	---	---	0.339	0.303	0.080	0.282	0.300	0.089	---	---	15
16	---	---	---	---	0.226	0.144	0.097	0.231	0.337	0.087	---	---	16
17	---	---	---	---	0.271	0.135	0.077	0.258	0.185	0.083	---	---	17
18	---	---	---	---	0.427	0.142	0.139	0.351	0.152	0.087	---	---	18
19	---	---	---	---	0.336	0.128	0.353	0.550	0.152	0.092	---	---	19
20	---	---	---	---	0.312	0.142	0.693	0.663	0.332	0.482	---	---	20
21	---	---	---	---	0.243	0.174	0.772	0.673	0.395	0.169	---	---	21
22	---	---	---	---	0.134	0.376	0.503	0.537	0.468	0.127	---	---	22
23	---	---	---	---	0.159	0.290	0.356	0.321	0.393	0.118	---	---	23
24	---	---	---	---	0.395	0.277	0.403	0.299	0.255	0.110	---	---	24
25	---	---	---	0.077A	0.497	0.188	0.399	0.164	0.240	0.096	---	---	25
26	---	---	---	0.094	0.471	0.169	0.603	0.268	0.282	0.086	---	---	26
27	---	---	---	0.107	0.319	0.085	1.27	0.321	0.198	0.117	---	---	27
28	---	---	---	0.097	0.202E	0.090	0.585	0.340	0.173	0.109	---	---	28
29	---	---	---	0.105	0.176E	0.182	0.404	0.279	0.435	0.097	---	---	29
30	---	---	---	0.102	0.167	0.236	0.388	0.223	0.415	0.096	---	---	30
31	---		---		0.193E		0.313	0.296		0.091		---	31
TOTAL	---	---	---	---	13.411	6.334	9.490	10.076	7.018	8.603	---	---	TOTAL
MEAN	---	---	---	---	0.433	0.211	0.306	0.325	0.234	0.278	---	---	MEAN
MAX	---	---	---	---	1.01	0.591	1.27	0.673	0.468	0.676	---	---	MAX
MIN	---	---	---	---	0.100	0.085	0.070	0.117	0.112	0.083	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.299
MAXIMUM DAILY, 1.27 ON JUL 27
MINIMUM DAILY, 0.070 ON JUL 09

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 01 47 N
LONG 110 38 27 W
DRAINAGE AREA, 1 490 km²

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	820
FEB	---	AUG	871
MAR	---	SEP	606
APR	---	OCT	743
MAY	1 160	NOV	---
JUN	547	DEC	---

TOTAL DISCHARGE, 4 750 dam³

ROSS CREEK NEAR IRVINE - STATION NO. 05AH003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	0B	0 B	0.759	0.129	0.055	0	0	0	0	---	---	1
2	---	0B	0 B	0.568	0.134	0.027	0	0	0	0	---	---	2
3	---	0B	0 B	0.401	0.126	0.011	0	0	0	0	---	---	3
4	---	0B	0 B	0.405	0.138	0.004	0	0	0	0	---	---	4
5	---	0B	0 B	0.417	0.158	0	0	0	0	0	---	---	5
6	---	0B	0 B	0.259	0.160	0	0	0	0	0	---	---	6
7	---	0B	0 B	0.041	0.171	0	0	0	0	0	---	---	7
8	---	0B	0 B	0.009	0.137	0	0	0	0	0	---	---	8
9	---	0B	0.002B	0.002	0.113	0	0	0	0	0	---	---	9
10	---	0B	0.025B	0	0.085	0	0	0	0	0	---	---	10
11	---	0B	0.157B	0	0.067	0	0	0	0	0	---	---	11
12	---	0B	0.120B	0	0.058	0	0	0	0	0	---	---	12
13	---	0B	0.082B	0	0.056	0	0	0	0	0	---	---	13
14	---	0B	0.060B	0	0.079	0	0	0	0	0	---	---	14
15	---	0B	0.035	0	0.085	0	0	0	0	0	---	---	15
16	---	0B	0.005	0	0.075	0	0	0	0	0	---	---	16
17	---	0B	0.028	0	0.061	0	0	0	0	0	---	---	17
18	---	0B	0.020	0	0.051	0	0	0	0	0	---	---	18
19	---	0B	0.003	0	0.045	0.012	0	0	0	0	---	---	19
20	---	0B	0	0	0.032	0.037	0	0	0	0	---	---	20
21	---	0B	0.006	0	0.023	0.003	0	0	0	0	---	---	21
22	---	0B	0.220	0	0.013	0	0	0	0	0	---	---	22
23	---	0B	0.417	0	0.011	0	0	0	0	0	---	---	23
24	---	0B	0.374	0	0.006	0	0	0	0	0	---	---	24
25	---	0B	0.246	0	0.005	0	0	0	0	0	---	---	25
26	---	0B	0.169	0	0.052	0	0	0	0	0	---	---	26
27	---	0B	0.141	0	0.068	0	0	0	0	0	---	---	27
28	---	0B	0.111	0	0.159	0	0	0	0	0	---	---	28
29	0B		0.101	0	0.190	0	0	0	0	0	---	---	29
30	0B		0.438	0.064	0.154	0	0	0	0	0	---	---	30
31	0B		0.876		0.073		0	0		0A 0E	---	---	31
TOTAL	---	0	3.636	2.925	2.714	0.149	0	0	0	0	---	---	TOTAL
MEAN	---	0	0.117	0.098	0.088	0.005	0	0	0	0	---	---	MEAN
MAX	---	0	0.876	0.759	0.190	0.055	0	0	0	0	---	---	MAX
MIN	---	0	0	0	0.005	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.035
MAXIMUM DAILY, 0.876 ON MAR 31
MINIMUM DAILY, 0B ON FEB 01
MAXIMUM INSTANTANEOUS
0.965 AT 15:30 MST ON MAR 31

SUMMARY FOR THE MONTHS FEB TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 58 27 N
LONG 110 22 00 W
DRAINAGE AREA, 647 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	0	AUG	0
MAR	314	SEP	0
APR	253	OCT	0
MAY	234	NOV	---
JUN	12.9	DEC	---

TOTAL DISCHARGE, 814 dam³

RUSH LAKE DRAIN NEAR NEW DAYTON - STATION NO. 05AF031

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.321B	0.576	0.259	0.040	0.180	0.032	0.021	0.010	0.004A	---	1
2	---	---	0.291B	0.394	0.505	0.029	0.134	0.014	0.020	0.010	---	---	2
3	---	---	0.241B	0.452	0.737	0.025	0.220	0.007	0.018	0.009	---	---	3
4	---	---	0.213B	0.399	0.507	0.022	0.137	0	0.019	0.009	---	---	4
5	---	---	0.191B	0.303	0.376	0.018	0.154	0	0.019	0.013	---	---	5
6	---	---	0.155B	0.238	0.269	0.015	0.144	0.024	0.022	0.028	---	---	6
7	---	---	0.131B	0.193	0.173	0.016	0.111	0.192	0.020	0.065	---	---	7
8	---	---	0.158B	0.162	0.134	0.015	0.106	0.179	0.017	0.014	---	---	8
9	---	---	0.163B	0.142B	0.118	0.013	0.070	0.135	0.016	0.007	---	---	9
10	---	---	0.067B	0.125B	0.158	0.013	0.053	0.203	0.023	0.006	---	---	10
11	---	---	0.047B	0.166B	0.162	0.015	0.076	0.219	0.024	0.009	---	---	11
12	---	---	0.027B	0.201B	0.122	0.016	0.239	0.052	0.019	0.058	---	---	12
13	---	---	0.019B	0.238	0.115	0.024	0.151	0.028	0.015	0.042	---	---	13
14	---	---	0.015B	0.295	0.104	0.033	0.126	0.023	0.026	0.026	---	---	14
15	---	---	0.012B	0.266	0.093	0.021	0.104	0.021	0.027	0.021	---	---	15
16	---	---	0.008B	0.282	0.088	0.019	0.073	0.014	0.017	0.019	---	---	16
17	---	---	0.012B	0.234	0.081	0.015	0.119	0.004	0.015	0.017	---	---	17
18	---	---	0.014B	0.211	0.073	0.012	0.178	0	0.014	0.019	---	---	18
19	---	---	0.015B	0.188	0.069	0.008	0.200	0	0.015	0.016	---	---	19
20	---	---	0.036B	0.154	0.064	0.007	0.212	0	0.013	0.011	---	---	20
21	---	---	0.570B	0.124	0.065	0.006	0.231	0	0.015	0.010	---	---	21
22	---	---	0.591B	0.110	0.053	0.005	0.179	0	0.015	0.010	---	---	22
23	---	---	0.345B	0.101	0.045	0.004	0.200	0	0.014	0.008	---	---	23
24	---	---	0.357B	0.092	0.043	0.003	0.194	0	0.013	0.006	---	---	24
25	---	---	0.232B	0.086	0.096	0.003	0.231	0.005	0.012	0.007	---	---	25
26	---	0.205B	0.234B	0.081	0.455	0.002	0.278	0.028	0.012	0.005	---	---	26
27	---	0.537B	0.267B	0.083	0.408	0.006	0.214	0.038	0.012	0.004	---	---	27
28	---	0.383B	0.335B	0.096	0.375	0.040	0.118	0.042	0.015	0.003	---	---	28
29	---		0.338B	0.132	0.302	0.135	0.107	0.044	0.015	0.003	---	---	29
30	---		0.443	0.184	0.123	0.214	0.053	0.029	0.012	0.003	---	---	30
31	---		0.577		0.079		0.042	0.024		0.006 0.005	---	---	31
TOTAL	---	---	6.395	6.308	6.251	0.794	4.634	1.357	0.509	0.476	---	---	TOTAL
MEAN	---	---	0.206	0.210	0.202	0.027	0.150	0.044	0.017	0.015	---	---	MEAN
MAX	---	---	0.591	0.576	0.737	0.214	0.278	0.219	0.027	0.065	---	---	MAX
MIN	---	---	0.008	0.081	0.043	0.002	0.042	0	0.012	0.003	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.109
MAXIMUM DAILY, 0.737 ON MAY 03
MINIMUM DAILY, 0 ON AUG 04

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 25 57 N
LONG 112 10 40 W
DRAINAGE AREA, 698 km²
B - ICE CONDITIONS
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	400
FEB	---	AUG	117
MAR	553	SEP	44.0
APR	545	OCT	41.1
MAY	240	NOV	---
JUN	68.6	DEC	---

TOTAL DISCHARGE, 2 310 dam³

RYCROFT SURVEY NO. 3 NEAR RYCROFT - STATION NO. 07FD910

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.129B	0.006	0	0	0	0	0	---	---	1
2	---	---	---	0.106B	0.004	0	0	0	0	0	---	---	2
3	---	---	---	0.082B	0.003	0	0	0	0	0	---	---	3
4	---	---	---	0.056B	0.002	0	0	0	0	0	---	---	4
5	---	---	0.001B	0.039B	0.002	0	0	0	0	0	---	---	5
6	---	---	---	0.030	0.001	0	0	0	0	0	---	---	6
7	---	---	---	0.020	0.001	0	0	0	0	0	---	---	7
8	---	---	---	0.013B	0.001	0	0	0	0	0	---	---	8
9	---	---	---	0.010B	0.002	0	0	0	0	0	---	---	9
10	---	---	---	0.008B	0.001	0	0	0	0	0	---	---	10
11	---	---	---	0.006B	0.002	0.670	0	0	0	0	---	---	11
12	---	---	---	0.006B	0.002	5.16	0	0	0	0	---	---	12
13	---	---	---	0.007	0.003	5.20	0	0	0	0	---	---	13
14	---	---	---	0.007	0.002	1.47	0	0	0	0	---	---	14
15	---	---	---	0.006	0.001	0.674	0	0	0	0	---	---	15
16	---	---	---	0.005	0.001	0.350	0	0	0	0	---	---	16
17	---	---	---	0.004	0.001	0.202	0	0	0	0B	---	---	17
18	---	---	---	0.002	0.001	0.117	0	0	0	0B	---	---	18
19	---	---	---	0.001	0.001	0.068	0	0	0	0B	---	---	19
20	---	---	---	0.001	0.001	0.027	0	0	0	0B	---	---	20
21	---	---	---	0	0	0.011	0	0	0	0B	---	---	21
22	---	---	---	0	0	0	0	0	0	0B	---	---	22
23	---	---	---	0	0	0	0	0	0	0B	---	---	23
24	---	---	---	0.001	0	0	0	0	0	0B	---	---	24
25	---	---	---	0.020	0	0	0	0	0	0B	---	---	25
26	---	---	---	0.058	0	0	0	0	0	0B	---	---	26
27	---	---	---	0.026	0	0	0	0	0	0B	---	---	27
28	---	---	0.334B	0.018	0	0	0	0	0	0B	---	---	28
29	---	---	0.307B	0.012	0	0	0	0	0	0B	---	---	29
30	---		0.323B	0.008	0	0	0	0	0	0B	---	---	30
31	---		0.246B		0		0	0	0	0B		---	31
TOTAL	---	---	---	0.681	0.038	13.940	0	0	0	0	---	---	TOTAL
MEAN	---	---	---	0.023	0.001	0.465	0	0	0	0	---	---	MEAN
MAX	---	---	---	0.129	0.006	5.20	0	0	0	0	---	---	MAX
MIN	---	---	---	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 5.20 ON JUN 13
MINIMUM DAILY, 0 ON APR 21
MAXIMUM INSTANTANEOUS,
7.58 AT 19:24 MST ON JUN 12

REMARKS - DATA FOR 1982 ARE ALSO AVAILABLE

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 45 00 N
LONG 118 35 00 W

B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	---	SEP	0
APR	58.8	OCT	0
MAY	3.28	NOV	---
JUN	1 200	DEC	---

SADDLE RIVER NEAR WOKING - STATION NO. 07FD006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.150B	4.78	3.48	12.1	0.329	0	0.028	0	---	---	1
2	---	---	0.350B	4.03	3.30	6.08	0.320	0	0.039	0	---	---	2
3	---	---	0.750B	4.36	3.07	4.53	0.476	0	0.061	0	---	---	3
4	---	---	2.50 B	4.84	2.83	3.52	0.771	0	0.058	0	---	---	4
5	---	---	2.75 B	3.48	2.65	4.56	0.626	0.001	0.066	0	---	---	5
6	---	---	2.65 B	3.45	2.63	3.86	0.462	0.002	0.085	0	---	---	6
7	---	---	2.35 B	3.26	2.69	2.83	0.360	0.008	0.211	0	---	---	7
8	---	---	1.72 B	2.33	2.91	2.07	0.293	0.019	0.106	0	---	---	8
9	---	---	0.550B	1.67	3.19	1.64	0.247	0.022	0.087	0	---	---	9
10	---	---	0.488B	1.50	2.96	1.59	0.215	0.027	0.074	0	---	---	10
11	---	---	0.420B	1.28	2.63	90.9 A	0.219	0.041	0.076	0.001	---	---	11
12	---	---	0.372B	1.16	2.60	352 A	0.204	0.051	0.056	0.006	---	---	12
13	---	---	0.312B	1.36	2.30	120 A	0.172	0.047	0.045	0.007	---	---	13
14	---	---	0.176B	1.83	2.12	31.6 A	0.132	0.048	0.035	0.008	---	---	14
15	---	---	0.160B	2.40	2.04	13.7 E	0.106	0.041	0.025	0.011	---	---	15
16	---	---	1.44 B	2.14	1.81	8.67 E	0.105	0.043	0.031	0.011	---	---	16
17	---	---	1.73 B	2.31	1.72	5.93 E	0.109	0.074	0.029	0.010	---	---	17
18	---	---	2.13 B	2.83	1.68	3.69 E	0.124A	0.084	0.025	0.010	---	---	18
19	---	---	2.10 B	4.69	1.68	2.34 A	0.121E	0.078	0.019	0.008	---	---	19
20	---	---	0.468B	5.25	1.83	1.88	0.119E	0.072	0.012	0.007	---	---	20
21	---	---	0.348B	4.80	1.88	1.49	0.116E	0.064	0.008	0.008	---	---	21
22	---	---	0.280B	4.12	1.96	1.18	0.114E	0.051	0.007	0.009	---	---	22
23	---	0.020B	0.256B	3.68	1.95	0.984	0.111A	0.040	0.006	0.007	---	---	23
24	---	0.025B	0.196B	4.64	1.68	0.806	0.042	0.047	0.002	0.007	---	---	24
25	---	0.030B	0.244B	22.2	2.00	0.673	0.037	0.037	0	0.008	---	---	25
26	---	0.035B	0.264B	16.4	8.41	0.555	0.014	0.021	0	0.009	---	---	26
27	---	0.040B	0.300B	8.16	6.07	0.502	0.001	0.018	0	0.011	---	---	27
28	---	0.050B	1.06 B	5.02	3.81	0.428	0.003	0.010	0	0.016	---	---	28
29	---		2.45 B	3.58	2.78	0.364	0	0.008	0	0.022A	---	---	29
30	---		2.27 B	3.16	3.50	0.336	0	0.015	0	0.023E	---	---	30
31	---		5.79		13.9		0	0.028		0.024E		---	31
TOTAL	---	---	39.194	134.93	98.06	680.828	5.988	0.999	1.189	0.223	---	---	TOTAL
MEAN	---	---	1.26	4.50	3.16	22.7	0.193	0.032	0.040	0.007	---	---	MEAN
MAX	---	---	5.79	22.2	13.9	352	0.771	0.084	0.211	0.024	---	---	MAX
MIN	---	---	0.150	1.16	1.68	0.336	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.92
MAXIMUM DAILY, 352A ON JUN 12
MINIMUM DAILY, 0 ON JUL 29
MAXIMUM INSTANTANEOUS,
447 AT 00:00 MST ON JUN 12

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARKS.

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 38 39 N
LONG 118 41 51 W
DRAINAGE AREA 538 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	517
FEB	---	AUG	86.3
MAR	3 390	SEP	103
APR	11 700	OCT	19.3
MAY	8 470	NOV	---
JUN	58 800	DEC	---

TOTAL DISCHARGE, 83 100 dam³

SAGE CREEK AT Q RANCH NEAR WILDHORSE - STATION NO. 11AA025

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.73 B	0.713	0	0.117	0	0	0	0	---	---	1
2	---	---	2.45 B	0.618	0	0.097	0	0	0	0	---	---	2
3	---	---	4.26 B	0.450	0	0.081	0	0	0	0	---	---	3
4	---	---	7.34 B	0.412	0	0.058	0	0	0	0	---	---	4
5	---	---	9.96 B	0.378	0	0.041	0	0	0	0	---	---	5
6	---	---	8.63 B	0.222	0	0.028	0	0	0	0	---	---	6
7	---	---	7.56 B	0.157	0	0.019	0	0	0	0	---	---	7
8	---	---	8.02 B	0.099	0	0.015	0	0	0	0	---	---	8
9	---	---	5.36 B	0.071	0	0.007	0	0	0	0	---	---	9
10	---	---	6.98 B	0.056	0	0.002	0	0	0	0	---	---	10
11	---	---	3.40 B	0.040	0	0	0	0	0	0	---	---	11
12	---	---	0.565B	0.032	0	0	0	0	0	0	---	---	12
13	---	---	0.615B	0.026	0	0	0	0	0	0	---	---	13
14	---	---	0.690B	0.020	0	0	0	0	0	0	---	---	14
15	---	---	0.411B	0.018	0	0	0	0	0	0	---	---	15
16	---	---	0.260B	0.019	0	0	0	0	0	0	---	---	16
17	---	---	0.250B	0.020	0	0	0	0	0	0	---	---	17
18	---	---	0.387B	0.015	0	0	0	0	0	0	---	---	18
19	---	---	1.19 B	0.011	0	0	0	0	0	0	---	---	19
20	---	---	2.56 B	0.007	0	0	0	0	0	0	---	---	20
21	---	---	3.76 B	0.004	0	0	0	0	0	0	---	---	21
22	---	---	2.43 B	0.003	0	0	0	0	0	0	---	---	22
23	---	---	1.65 B	0.003	0	0	0	0	0	0	---	---	23
24	---	---	0.778B	0.001	0	0	0	0	0	0	---	---	24
25	---	---	0.432B	0	1.68	0	0	0	0	0	---	---	25
26	---	---	0.259B	0	5.82	0	0	0	0	0	---	---	26
27	---	1.63B	0.215B	0	1.95	0	0	0	0	0	---	---	27
28	---	1.13B	0.169A	0	0.649	0	0	0	0	0	---	---	28
29	---		0.322	0	0.344	0	0	0	0	0	---	---	29
30	---		0.626	0	0.272	0	0	0	0	0	---	---	30
31	---		0.780		0.189		0	0		0A		---	31
TOTAL	---	---	84.039	3.395	10.904	0.465	0	0	0	0	---	---	TOTAL
MEAN	---	---	2.71	0.113	0.352	0.016	0	0	0	0	---	---	MEAN
MAX	---	---	9.96	0.713	5.82	0.117	0	0	0	0	---	---	MAX
MIN	---	---	0.169	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.403
MAXIMUM DAILY, 9.96B ON MAR 05
MINIMUM DAILY, 0 ON APR 25
MAXIMUM INSTANTANEOUS,
10.9B AT 22:35 MST ON MAR 05

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 06 29 N
LONG 110 13 23 W
DRAINAGE AREA, 456 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	7 260	SEP	0
APR	293	OCT	0
MAY	542	NOV	---
JUN	40.2	DEC	---

TOTAL DISCHARGE, 8 540 dam³

SAKWATAMAU RIVER NEAR WHITECOURT - STATION NO. 07AH003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.09 B	1.99B	7.49	7.74	3.29	1.48	6.73	1.18	---	---	1
2	---	---	1.08 B	3.30B	7.88	7.26	3.35	1.31	5.19	1.25	---	---	2
3	---	---	1.07 B	3.85B	7.94	6.42	8.93	1.18	3.42	1.27	---	---	3
4	---	---	1.05 B	4.58B	7.84	6.40	24.6	1.19	2.48	1.47	---	---	4
5	---	---	1.02 B	5.03B	7.73	12.7	21.0	1.19	1.95	1.80	---	---	5
6	---	---	1.00 B	5.04B	7.61	19.3	14.9	1.15	1.56	1.93	---	---	6
7	---	---	0.991B	4.88B	7.61	14.7	11.8	1.13	1.37	1.87	---	---	7
8	---	---	1.09 B	4.59B	7.16	11.7	9.80	1.27	1.32	1.81	---	---	8
9	---	---	1.13 B	4.22B	6.64	9.86	7.61	1.46	1.32	1.87	---	---	9
10	---	---	1.20 B	3.76B	6.42	8.53	6.32	1.64	1.40	2.13	---	---	10
11	---	---	1.30 B	3.50B	5.90	8.63	5.18	1.66	1.40	3.02	---	---	11
12	---	---	1.22 B	3.54B	5.47	13.5	4.47	1.84	1.45	3.62	---	---	12
13	---	---	1.31 B	3.71B	5.17	19.5	3.59	1.89	1.46	3.12	---	---	13
14	---	---	1.36 B	4.15B	5.01	19.9	3.08	1.95	1.50	3.09	---	---	14
15	---	---	1.27 B	4.50B	5.02	15.3	2.65	2.06	1.46	2.94B	---	---	15
16	---	---	1.20 B	5.80B	4.91	12.0	2.40	2.35	1.43	2.30B	---	---	16
17	---	---	1.23 B	6.36B	4.88	9.66	2.17	2.68	1.61	2.38B	---	---	17
18	---	---	1.25 B	5.94B	4.74	7.91	2.17	3.56	1.71	2.45B	---	---	18
19	---	---	1.26 B	6.56B	5.51	6.61	2.20	3.20	1.91	2.51B	---	---	19
20	---	---	1.20 B	12.3 B	6.19	5.67	2.21	2.64	1.74	1.78B	---	---	20
21	---	0.931B	1.23 B	15.8 B	6.90	4.89	2.04	2.17	1.60	1.78B	---	---	21
22	---	---	1.22 B	17.7 B	10.5	4.30	1.84	2.06	1.52	2.28B	---	---	22
23	---	---	1.32 B	16.6	12.4	3.92	1.67	1.91	1.46	1.86B	---	---	23
24	---	---	1.28 B	16.5	11.4	3.68	1.54	2.12	1.37	2.31B	---	---	24
25	---	---	1.29 B	16.7	10.8	3.57	1.40	2.06	1.29	2.24B	---	---	25
26	---	---	1.25 B	16.2	11.4	3.50	1.29	1.89	1.25	2.27B	---	---	26
27	---	---	1.30 B	13.1	10.0	3.72	1.28	1.66	1.19	2.47B	---	---	27
28	---	---	1.35 B	10.8	8.35	3.69	1.89	1.56	1.17	2.40B	---	---	28
29	---		1.47 B	8.85	7.34	3.69	2.01	1.44	1.17	2.94B	---	---	29
30	---		1.59 B	7.48	6.74	3.50	2.14	1.58	1.17	1.73B	---	---	30
31	---		1.73 B		7.17		1.69	2.99		1.52B		---	31
TOTAL	---	---	38.461	237.33	230.11	261.45	161.11	58.17	55.56	66.71	---	---	TOTAL
MEAN	---	---	1.24	7.91	7.42	8.72	5.20	1.88	1.85	2.15	---	---	MEAN
MAX	---	---	1.73	17.7	12.4	19.9	24.6	3.56	6.73	3.62	---	---	MAX
MIN	---	---	0.991	1.99	4.74	3.50	1.28	1.13	1.13	1.18	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.53
MAXIMUM DAILY, 24.6 ON JUL 04
MINIMUM DAILY, 0.991B ON MAR 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 12 05 N
LONG 115 46 40 W
DRAINAGE AREA, 1 140 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	13 900
FEB	---	AUG	5 030
MAR	3 320	SEP	4 800
APR	20 500	OCT	5 760
MAY	19 900	NOV	---
JUN	22 600	DEC	---

TOTAL DISCHARGE, 95 800 dam³

SALT CREEK NEAR GROUARD - STATION NO. 07BF009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.105B	1.75 B	2.79	0.507	0.162	0.058E	0.006E	0.003	0.019A	---	1
2	---	---	0.108B	3.31 B	2.53	0.415	0.197	0.050E	0.010E	0.003	---	---	2
3	---	---	0.110E	3.05 B	2.03	0.348	0.225	0.043E	0.012E	0.003	---	---	3
4	---	---	0.109B	2.49 B	5.15	0.308	0.322	0.039E	0.011E	0.003	---	---	4
5	---	---	0.107B	2.21 B	3.44	0.372	0.375	0.033E	0.009E	0.003	---	---	5
6	---	---	0.105B	2.12 B	3.02	0.381	0.234	0.029E	0.008E	0.004	---	---	6
7	---	---	0.104B	2.23 B	2.78	0.351	0.182	0.025E	0.007E	0.004	---	---	7
8	---	---	0.103B	1.85 B	2.85	0.280	0.153A	0.022E	0.006E	0.005	---	---	8
9	---	---	0.101B	1.91 B	1.94	0.243	0.148A	0.020E	0.005E	0.005	---	---	9
10	---	---	0.100B	1.67 B	1.99	0.208	0.132A	0.016E	0.005E	0.005	---	---	10
11	---	---	0.100B	1.59 B	1.50	0.699	0.159A	0.013E	0.006E	0.005	---	---	11
12	---	---	0.100B	1.14 B	1.14	9.74	0.150E	0.010E	0.007E	0.006	---	---	12
13	---	---	0.102B	0.907B	1.04	13.2	0.136E	0.011E	0.007E	0.007	---	---	13
14	---	---	0.105B	1.05 B	0.937	9.30	0.123E	0.010E	0.006E	0.007	---	---	14
15	---	0.091B	0.115B	1.20 B	0.814	6.68	0.115E	0.007E	0.006E	0.008	---	---	15
16	---	0.091B	0.128B	1.70 B	0.795	5.70	0.108E	0.003E	0.006E	0.008	---	---	16
17	---	0.090B	0.140B	1.82 B	0.648	3.60	0.102E	0.003E	0.005E	0.008	---	---	17
18	---	0.090B	0.150B	1.95 B	0.634	2.52	0.100E	0.003E	0.005E	0.010	---	---	18
19	---	0.090B	0.160B	2.46 B	0.627	1.66	0.103E	0.004E	0.005E	0.009	---	---	19
20	---	0.090B	0.150B	2.46 B	1.09	1.17	0.110E	0.004E	0.004E	0.008	---	---	20
21	---	0.089B	0.140B	2.58 B	1.38	0.980	0.105E	0.003E	0.004E	0.008	---	---	21
22	---	0.089B	0.137B	2.66 B	1.79	0.733	0.095E	0.002E	0.004E	0.008	---	---	22
23	---	0.089B	0.147B	2.31	1.60	0.699	0.086E	0.001A	0.003E	0.009	---	---	23
24	---	0.089B	0.153B	2.31	1.78	0.897	0.138E	0.003E	0.004A	0.010	---	---	24
25	---	0.088B	0.158B	3.30	1.55	0.655	0.159A	0.005E	0.004	0.011	---	---	25
26	---	0.088B	0.160B	3.75	1.31	0.555	0.128A	0.005E	0.003	0.015	---	---	26
27	---	0.088B	0.163B	3.34	1.10	0.523	0.077	0.004E	0.005	0.019	---	---	27
28	---	0.090B	0.175B	2.83	0.860	0.302	0.064	0.003E	0.007	0.018	---	---	28
29	---		0.200B	2.43	0.643	0.211	0.058	0.002E	0.005	0.019	---	---	29
30	---		0.440B	2.46	0.513	0.187	0.051E	0.002E	0.004	0.021	---	---	30
31	---		0.850B		0.639		0.054E	0.003E		0.020		---	31
TOTAL	---	---	5.024	66.857	50.380	63.464	4.351	0.436	0.179	0.272	---	---	TOTAL
MEAN	---	---	0.162	2.23	1.63	2.12	0.140	0.014	0.006	0.009	---	---	MEAN
MAX	---	---	0.850	3.75	5.15	13.2	0.375	0.058	0.012	0.021	---	---	MAX
MIN	---	---	0.100	0.907	0.513	0.187	0.051	0.001	0.003	0.003	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.779
MAXIMUM DAILY, 13.2 ON JUN 13
MINIMUM DAILY, 0.001A ON AUG 23
MAXIMUM INSTANTANEOUS,
14.4 AT 06:30 MST ON JUN 13

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 36 28 N
LONG 116 06 37 W
DRAINAGE AREA 426 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	376
FEB	---	AUG	37.7
MAR	434	SEP	15.5
APR	5 780	OCT	23.5
MAY	4 350	NOV	---
JUN	5 480	DEC	---

TOTAL DISCHARGE, 16 500 dam³

SAM LAKE TRIBUTARY NEAR SCHULER - STATION NO. 05AH047

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	0 B	0.002B	0B	0	0	0	0	0	0	---	---	1
2	---	0 B	0.001B	0B	0	0	0	0	0	0	---	---	2
3	---	0 B	0 B	0	0	0	0	0	0	0	---	---	3
4	---	0 B	0 B	0	0	0	0	0	0	0	---	---	4
5	---	0 B	0 B	0	0	0	0	0	0	0	---	---	5
6	---	0 B	0 B	0	0	0	0	0	0	0	---	---	6
7	---	0 B	0 B	0	0	0	0	0	0	0	---	---	7
8	---	0 B	0 B	0	0	0	0	0	0	0	---	---	8
9	---	0 B	0 B	0	0	0	0	0	0	0	---	---	9
10	---	0 B	0 B	0	0	0	0	0	0	0	---	---	10
11	---	0 B	0 B	0	0	0	0	0	0	0	---	---	11
12	---	0 B	0 B	0	0	0	0	0	0	0	---	---	12
13	---	0 B	0 B	0	0	0	0	0	0	0	---	---	13
14	---	0 B	0 B	0	0	0	0	0	0	0	---	---	14
15	---	0 B	0 B	0	0	0	0	0	0	0	---	---	15
16	---	0 B	0 B	0	0	0	0	0	0	0	---	---	16
17	---	0 B	0 B	0	0	0	0	0	0	0	---	---	17
18	---	0 B	0 B	0	0	0	0	0	0	0	---	---	18
19	---	0 B	0 B	0	0	0	0	0	0	0	---	---	19
20	---	0 B	0 B	0	0	0	0	0	0	0	---	---	20
21	---	0 B	0 B	0	0	0	0	0	0	0	---	---	21
22	---	0.015B	0 B	0	0	0	0	0	0	0	---	---	22
23	---	0.026B	0 B	0	0	0	0	0	0	0	---	---	23
24	---	0.012B	0 B	0	0	0	0	0	0	0	---	---	24
25	---	0.011B	0 B	0	0	0	0	0	0	0	---	---	25
26	---	0.019B	0 B	0	0	0	0	0	0	0	---	---	26
27	---	0.010B	0 B	0	0	0	0	0	0	0	---	---	27
28	---	0.001B	0 B	0	0	0	0	0	0	0	---	---	28
29	OB		0 B	0	0	0	0	0	0	0	---	---	29
30	OB		0 B	0	0	0	0	0	0	0	---	---	30
31	OB		0 B		0		0	0		0	---	---	31
TOTAL	---	0.094	0.003	0	0	0	0	0	0	0A	---	---	TOTAL
MEAN	---	0.003	0	0	0	0	0	0	0	0	---	---	MEAN
MAX	---	0.026	0.002	0	0	0	0	0	0	0	---	---	MAX
MIN	---	0	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0
MAXIMUM DAILY, 0.026B ON FEB 23
MINIMUM DAILY, OB ON FEB 01

SUMMARY FOR THE MONTHS FEB TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 09 48 N
LONG 110 15 39 W
DRAINAGE AREA, 81.8 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	8.12	AUG	0
MAR	0.259	SEP	0
APR	0	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 8.38 dam³

SAND RIVER NEAR THE MOUTH - STATION NO. 06AB001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	1.95B	2.53B	29.7	15.5	6.88	3.10	1.75A	1.27	1.53B	---	1
2	---	---	1.95B	2.92B	29.8	14.2	6.53	2.88	1.53	1.30	---	---	2
3	---	---	1.95B	3.57B	29.5A	13.6	7.84	2.73	1.38	1.40	---	---	3
4	---	---	1.95B	3.89B	28.8	12.7	9.52	2.50	1.29	1.47	---	---	4
5	---	---	1.95B	4.88B	28.4A	11.9	11.7	2.44	1.28	1.50	---	---	5
6	---	---	1.95B	6.07B	28.1	11.3	13.3	2.30	1.27	1.50	---	---	6
7	---	---	1.95B	6.44B	28.5	10.4	13.8	2.16	1.31	1.49	---	---	7
8	---	---	1.95B	6.54B	29.5	9.65	14.5	2.00	1.30	1.50	---	---	8
9	---	---	1.95B	6.70B	31.7	9.27	14.6	1.88	1.33	1.50	---	---	9
10	---	---	1.97B	6.52B	32.6	8.99	14.4	1.82	1.35	1.53	---	---	10
11	---	---	1.96B	7.04B	33.4	9.37	13.5	1.79	1.30	1.64	---	---	11
12	---	---	1.97B	7.48B	33.4	9.73	12.7	1.72	1.54	1.71	---	---	12
13	---	---	1.97B	7.83B	33.3	11.0	11.7	1.67	1.58	1.78	---	---	13
14	---	---	1.97B	8.00B	32.3	11.5	10.7	1.58	1.53	2.28	---	---	14
15	---	---	1.94B	8.20B	31.3	11.7	9.99	1.52	1.39	2.07	---	---	15
16	---	---	1.92B	8.40B	30.5	12.2	8.95	1.59	1.35	2.11	---	---	16
17	---	---	1.92B	8.50B	29.5A	12.1	8.16	1.60	1.35	2.16	---	---	17
18	---	---	1.88B	8.80B	28.6A	11.8	7.67	1.61	1.36	2.09	---	---	18
19	---	---	1.89B	9.52B	28.0E	11.3	7.09	1.60	1.34	1.99	---	---	19
20	---	---	1.91B	12.9 B	27.3A	10.6	6.59	1.53	1.38	2.00	---	---	20
21	---	---	1.96B	16.8 B	26.6	10.4	6.05	1.45	1.47	1.96B	---	---	21
22	---	---	1.94B	16.4 B	26.0	10.3	5.64	1.45	1.43	1.94B	---	---	22
23	---	---	1.99B	16.3 B	25.1	9.64	5.26	1.40	1.36	1.89B	---	---	23
24	---	---	1.98B	19.6	24.2	9.18	4.89	1.38	1.33	1.85B	---	---	24
25	---	---	1.99B	24.4	23.4	8.62	4.62	1.37	1.31	1.81B	---	---	25
26	---	---	1.98B	27.6	22.2	8.15	4.47	1.31	1.32	1.77B	---	---	26
27	---	---	1.98B	29.1	21.1A	8.15	4.27	1.32	1.34	1.73B	---	---	27
28	---	---	2.06B	30.3	19.8A	7.71	4.28	1.28	1.34	1.69B	---	---	28
29	---	---	2.09B	30.4	18.8A	7.62	3.83	1.28	1.34	1.66B	---	---	29
30	---		2.19B	30.0	17.9	7.28	3.52	1.53	1.29	1.61B	---	---	30
31	---		2.37B		16.6		3.36	2.00A		1.57B		---	31
TOTAL	---	---	61.38	377.63	845.9	315.86	260.31	55.79	41.44	53.77	---	---	TOTAL
MEAN	---	---	1.98	12.6	27.3	10.5	8.40	1.80	1.38	1.73	---	---	MEAN
MAX	---	---	2.37	30.4	33.4	15.5	14.6	3.10	1.75	2.28	---	---	MAX
MIN	---	---	1.88	2.53	16.6	7.28	3.36	1.28	1.27	1.27	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 8.21
MAXIMUM DAILY, 33.4 ON MAY 11
MINIMUM DAILY, 1.27 ON SEP 06
MAXIMUM INSTANTANEOUS,
33.7 AT 11:18 MST ON MAY 11

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 28 16 N
LONG 111 11 08 W
DRAINAGE AREA, 4 910 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	22 500
FEB	---	AUG	4 820
MAR	5 300	SEP	3 580
APR	32 600	OCT	4 650
MAY	73 100	NOV	---
JUN	27 300	DEC	---

TOTAL DISCHARGE, 174 000 dam³

SAULTEAUX RIVER NEAR SPURFIELD - STATION NO. 07BK005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.179B	1.28B	13.1	7.65	6.09	2.56	2.19	0.818	---	---	1
2	---	---	0.179B	1.65B	11.8	7.16	5.64	2.36	2.25	0.756	---	---	2
3	---	---	0.185B	2.06B	11.3	6.77	5.91	2.33	6.35	0.719	---	---	3
4	---	---	0.187B	2.93B	10.9	6.43	7.17	2.27	7.12	0.717	---	---	4
5	---	---	0.182B	3.48B	10.5	6.06	19.3	2.29	5.79	0.697	---	---	5
6	---	---	0.181B	3.59B	9.85	5.68	29.9	2.21	4.62	0.700	---	---	6
7	---	---	0.181B	3.91B	9.75	5.68	27.1	2.00	3.78	0.748	---	---	7
8	---	---	0.180B	4.34B	9.72	6.19	23.4	1.81	3.32	0.720	---	---	8
9	---	---	0.185B	4.27B	9.65	6.85	22.9	1.65	3.07	0.816	---	---	9
10	---	---	0.187B	3.94B	9.06	8.14	20.1	1.52	2.91	0.920	---	---	10
11	---	---	0.190B	3.32B	8.59	10.3	17.4	1.40	2.72	0.900	---	---	11
12	---	---	0.198B	2.69B	8.45	16.6	15.1	1.32	2.61	0.887	---	---	12
13	---	---	0.205B	2.50B	7.51	45.9	13.0	1.25	2.38	1.01	---	---	13
14	---	---	0.210B	2.50B	6.82	62.8	10.9	1.16	2.15	1.39	---	---	14
15	---	---	0.210B	2.34B	6.31	66.7	9.18	1.13	1.92	1.68	---	---	15
16	---	---	0.219B	2.32B	5.81	59.8	7.87	1.08	1.74	1.68	---	---	16
17	---	---	0.223B	2.22B	5.49	47.6	7.03	1.07	1.59	1.73	---	---	17
18	---	---	0.232B	2.48B	5.26	38.1	6.68	1.07	1.45	1.71	---	---	18
19	---	---	0.236B	2.91B	5.07	31.7	6.97	1.06	1.36	1.54	---	---	19
20	---	---	0.240B	3.07B	5.21	26.3	6.97	1.05	1.25	1.19 B	---	---	20
21	---	---	0.251B	3.21B	5.50	21.8	6.76	1.07	1.14	1.06 B	---	---	21
22	---	---	0.267B	4.67	6.34	18.6	6.40	1.28	1.08	1.06 B	---	---	22
23	---	---	0.298B	7.20	6.79	15.9	5.87	1.39	1.03	1.02 B	---	---	23
24	---	---	0.325B	9.28	7.78	13.5	5.25	1.62	0.973	0.994B	---	---	24
25	---	---	0.340B	11.2	8.16	11.6	4.74	2.56	0.979	1.14 B	---	---	25
26	---	---	0.348B	17.4	8.90	10.3	4.34	4.96	0.942	1.13 B	---	---	26
27	---	---	0.354B	21.6	10.1	9.07	3.90	4.67	0.875	0.882B	---	---	27
28	---	0.186B	0.378B	20.0	10.8	8.06	3.54	3.99	0.840	0.930B	---	---	28
29	---		0.478B	17.4	10.1	7.42	3.24	3.36	0.857	0.938B	---	---	29
30	---		0.714B	14.9	9.14	6.73	2.98	2.85	0.828	0.950B	---	---	30
31	---		0.994B		8.34		2.76	2.48		1.01 B		---	31
TOTAL	---	---	8.736	184.66	261.90	595.39	318.39	62.82	70.714	32.442	---	---	TOTAL
MEAN	---	---	0.282	6.16	8.45	19.8	10.3	2.03	2.36	1.05	---	---	MEAN
MAX	---	---	0.994	21.6	13.1	66.7	29.9	4.96	7.12	1.73	---	---	MAX
MIN	---	---	0.179	1.28	5.07	5.68	2.76	1.05	0.828	0.697	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 6.27
MAXIMUM DAILY, 66.7 ON JUN 15
MINIMUM DAILY, 0.179B ON MAR 01
MAXIMUM INSTANTANEOUS,
67.4 AT 12:30 MST ON JUN 15

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 09 20 N
LONG 114 14 10 W
DRAINAGE AREA, 2 600 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	27 500
FEB	---	AUG	5 430
MAR	755	SEP	6 110
APR	16 000	OCT	2 800
MAY	22 600	NOV	---
JUN	51 400	DEC	---

TOTAL DISCHARGE, 133 000 dam³

SAWRIDGE CREEK NEAR SLAVE LAKE - STATION NO. 07BK009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.160B	0.800B	3.99	2.30	1.09	0.480	3.35	0.433	0.680B	---	1
2	---	---	0.166B	1.00 B	4.03	2.27	1.24	0.445	2.84	0.466	---	---	2
3	---	---	0.170B	1.36 B	4.01	2.10	5.06	0.438	2.20	0.554	---	---	3
4	---	---	0.174B	2.14 B	3.98	2.01	5.44	0.420	1.74	0.652	---	---	4
5	---	---	0.178B	1.82 B	4.24	2.15	3.37	0.402	1.42	0.600	---	---	5
6	---	---	0.184B	1.57 B	4.63	2.14	2.47	0.381	1.32	0.560	---	---	6
7	---	---	0.190B	1.45 B	4.05	2.15	2.02	0.363	1.19	0.528	---	---	7
8	---	---	0.190B	1.26 B	3.75	1.94	1.67	0.345	1.25	0.503	---	---	8
9	---	---	0.188B	1.15 B	4.18	1.79	1.62	0.342	1.29	0.557	---	---	9
10	---	---	0.185B	0.920B	3.65	1.87	1.64	0.334	1.13	1.35	---	---	10
11	---	---	0.182B	0.930B	3.08	26.5	1.34	0.332	1.01	1.21	---	---	11
12	---	---	0.180B	1.06 B	2.85	29.9	1.18	0.330	0.934	0.933	---	---	12
13	---	---	0.178B	1.23 B	2.61	22.9	1.29	0.324	0.901	0.897	---	---	13
14	---	---	0.180B	1.62 B	2.49	11.9	1.02	0.332	0.817	1.13	---	---	14
15	---	---	0.185B	2.37	2.38	7.42	0.902	0.340	0.751	0.955	---	---	15
16	---	---	0.195B	1.90	2.30	5.05	0.909	0.352	0.721	0.703	---	---	16
17	---	---	0.205B	1.56	2.25	3.84	2.01	0.404	0.715	0.807	---	0.177B	17
18	---	---	0.210B	2.61	2.18	3.04	2.00	0.427	0.675	0.788	---	---	18
19	---	---	0.220B	3.72	2.27	2.63	1.76	0.412	0.626	0.761	---	---	19
20	---	---	0.220B	4.88	3.37	2.22	1.65	0.394	0.639	0.661B	---	---	20
21	---	---	0.210B	5.02	4.22	1.95	1.43	0.351	0.585	0.685B	---	---	21
22	---	---	0.200B	5.34	3.76	1.75	1.25	4.44	0.557	0.745B	---	---	22
23	---	---	0.195B	4.82	3.35	1.57	1.09	3.76	0.535	0.666	---	---	23
24	---	---	0.195B	8.77	3.30	1.44	0.979	2.44	0.481	0.705	---	---	24
25	---	---	0.200B	9.60	3.53	1.36	0.898	1.95	0.448	0.775	---	---	25
26	---	0.147B	0.213B	5.70 A	3.27	1.38	0.807	1.60	0.453	0.870	---	---	26
27	---	0.150B	0.238B	3.76 A	2.86	1.52	0.731	1.42	0.450	0.850	---	---	27
28	---	0.155B	0.263B	3.14 A	2.63	1.27	0.663	1.22	0.451	0.805B	---	---	28
29	---		0.350B	2.70 A	2.48	1.17	0.608	1.06	0.448	0.690B	---	---	29
30	---		0.460B	2.56 A	2.42	1.13	0.551	1.14	0.443	0.755B	---	---	30
31	---		0.600B		2.37		0.511	4.39		0.552B		---	31
TOTAL	---	---	6.864	86.760	100.48	150.66	49.199	31.368	30.370	23.146	---	---	TOTAL
MEAN	---	---	0.221	2.89	3.24	5.02	1.59	1.01	1.01	0.747	---	---	MEAN
MAX	---	---	0.600	9.60	4.63	29.9	5.44	4.44	3.35	1.35	---	---	MAX
MIN	---	---	0.160	0.800	2.18	1.13	0.511	0.324	0.443	0.433	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.95
MAXIMUM DAILY, 29.9 ON JUN 12
MINIMUM DAILY, 0.160B ON MAR 01
MAXIMUM INSTANTANEOUS,
55.6 AT 22:30 MST ON JUN 11

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 16 18 N
LONG 114 46 26 W
DRAINAGE AREA, 233 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	4 250
FEB	---	AUG	2 710
MAR	593	SEP	2 620
APR	7 500	OCT	2 000
MAY	8 680	NOV	---
JUN	13 000	DEC	---

TOTAL DISCHARGE, 41 400 dam³

SEVEN PERSONS CREEK AT MEDICINE HAT - STATION NO. 05AH005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.075	1.08	1.37	1.26	0.821	1.04	0.059A	---	1
2	---	---	---	---	0.062	0.974	1.41	1.50	1.05	0.893	---	---	2
3	---	---	---	---	0.057	1.22	1.61	1.48	0.971	1.05	---	---	3
4	---	---	---	---	0.239	1.22	1.55	1.60	1.03	1.26	---	---	4
5	---	---	---	---	0.274	1.21	1.60	1.55	0.860	1.22	---	---	5
6	---	---	---	---	0.393	1.11	1.52	1.36	0.821	1.47	---	---	6
7	---	---	---	---	0.605	1.15	1.55	1.39	0.850	1.59	---	---	7
8	---	---	---	---	0.887	1.06	1.46	1.20	0.844	1.60	---	---	8
9	---	---	---	---	0.924	1.15	1.22	1.26	0.961	1.56	---	---	9
10	---	---	---	---	0.808	1.01	1.03	1.44	1.08	1.39	---	---	10
11	---	---	---	---	0.875	1.14	1.15	1.29	1.05	0.841	---	---	11
12	---	---	---	---	0.760	1.16	1.05	1.40	0.964	0.366	---	---	12
13	---	---	---	---	0.794	1.17	1.10	1.58	0.925	0.241	---	---	13
14	---	---	---	---	0.819	1.43	1.05	1.53	0.874	0.169	---	---	14
15	---	---	---	---	0.944	1.22	1.40	1.54	0.955	0.157	---	---	15
16	---	---	---	---	1.01	1.12	1.62	1.30	1.11	0.143	---	---	16
17	---	---	---	---	1.00	1.19	1.65	1.51	1.13	0.127	---	---	17
18	---	---	---	---	1.20	1.18	1.73	1.52	0.984	0.110	---	---	18
19	---	---	---	---	1.27	0.976	2.11	1.53	0.954	0.103	---	---	19
20	---	---	---	---	1.27	0.938	2.32	1.39	0.934	0.093	---	---	20
21	---	---	---	---	1.39	1.11	1.82	1.54	0.924	0.070	---	---	21
22	---	---	---	---	1.42	1.13	1.98	1.26	0.909	0.076	---	---	22
23	---	---	---	---	1.09	1.02	2.05	1.22	0.753	0.074	---	---	23
24	---	---	---	---	1.01	1.02	1.92	1.36	0.835	0.069	---	---	24
25	---	---	---	0.069A	2.10	1.07	1.98	1.61	0.872	0.065	---	---	25
26	---	---	---	0.065	1.66	1.21	2.51	1.79	0.958	0.058	---	---	26
27	---	---	---	0.109	1.21	1.03	2.38	1.62	0.922	0.063	---	---	27
28	---	---	---	0.121	1.19	1.09	1.83	1.38	1.01	0.065	---	---	28
29	---	---	---	0.109	1.15	1.12	1.68	1.28	0.981	0.057	---	---	29
30	---		---	0.081	1.15	1.19	1.56	1.14	1.03	0.055	---	---	30
31	---		---		1.17		1.28	0.881		0.055		---	31
TOTAL	---	---	---	---	28.806	33.698	50.49	43.711	28.362	16.130	---	---	TOTAL
MEAN	---	---	---	---	0.929	1.12	1.63	1.41	0.945	0.520	---	---	MEAN
MAX	---	---	---	---	2.10	1.43	2.51	1.79	1.13	1.60	---	---	MAX
MIN	---	---	---	---	0.057	0.938	1.03	0.881	0.753	0.055	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.09
MAXIMUM DAILY, 2.51 ON JUL 26
MINIMUM DAILY, 0.055 ON OCT 30

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 01 25 N
LONG 110 41 02 W
DRAINAGE AREA, 3 270 km²

REGULATED SINCE 1955

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	4 360
FEB	---	AUG	3 780
MAR	---	SEP	2 450
APR	---	OCT	1 390
MAY	2 490	NOV	---
JUN	2 910	DEC	---

TOTAL DISCHARGE, 17 400 dam³

SHEEP COULEE NEAR CARSTAIRS - STATION NO. 05CE019

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.002B	0.007	0.009	0.155	0.013	0.001	0.010	0	---	---	1
2	---	---	0.003B	0.006	0.009	0.255	0.016	0.001	0.010	0	---	---	2
3	---	---	0.004B	0.004	0.008	0.253	0.042	0.001	0.011	0	---	---	3
4	---	---	0.006B	0.004	0.007	0.161	0.025	0.001	0.011	0	---	---	4
5	---	---	0.007B	0.004	0.007	0.132	0.020	0	0.009	0	---	---	5
6	---	---	0.010B	0.003	0.008	0.104	0.019	0	0.002	0	---	---	6
7	---	---	0.022B	0.003	0.007	0.081	0.025	0	0.001	0	---	---	7
8	---	---	0.036B	0.003	0.006	0.068	0.023	0	0	0	---	---	8
9	---	---	0.033B	0.003	0.006	0.038	0.022	0	0	0	---	---	9
10	---	---	0.020B	0.003	0.005	0.034	0.019	0	0	0	---	---	10
11	---	---	0.007B	0.005	0.004	0.088	0.017	0	0	0	---	---	11
12	---	---	0.002B	0.004	0.004	0.102	0.015	0	0	0	---	---	12
13	---	---	0.010B	0.006	0.003	0.227	0.013	0	0	0	---	---	13
14	---	---	0.005B	0.007	0.006	0.172	0.010	0	0	0	---	---	14
15	---	---	0.006B	0.007	0.005	0.103	0.006	0	0	0	---	---	15
16	---	---	0.011B	0.005	0.004	0.056	0.005	0	0	0	---	---	16
17	---	---	0.024B	0.002	0.004	0.038	0.004	0.001	0	0	---	---	17
18	---	---	0.062B	0.001	0.005	0.028	0.004	0.004	0	0	---	---	18
19	---	---	0.054	0.001	0.005	0.030	0.005	0.002	0	0	---	---	19
20	---	---	0.065	0.001	0.005	0.038	0.004	0.002	0	0	---	---	20
21	---	---	0.058B	0.001	0.049	0.025	0.004	0.004	0	0	---	---	21
22	---	0.006B	0.035B	0.002	0.110	0.020	0.003	0.006	0	0	---	---	22
23	---	0.001B	0.017B	0.007	0.084	0.016	0.003	0.008	0	0	---	---	23
24	---	0.001B	0.020B	0.009	0.070	0.020	0.002	0.009	0	0	---	---	24
25	---	0.001B	0.010B	0.009	0.086	0.012	0.002	0.008	0	0	---	---	25
26	---	0.001B	0.006	0.010	0.079	0.007	0.002	0.012	0	0	---	---	26
27	---	0.001B	0.006	0.013	0.076	0.008	0.002	0.010	0	0	---	---	27
28	---	0.001B	0.006	0.013	0.067	0.012	0.002	0.009	0	0	---	---	28
29	---		0.009	0.012	0.062	0.011	0.002	0.011	0	0	---	---	29
30	---		0.010	0.011	0.102	0.012	0.001	0.010	0	0	---	---	30
31	---		0.007		0.188		0.001	0.010		0.001A	---	---	31
TOTAL	---	---	0.573	0.166	1.090	2.386	0.331	0.110	0.054	0.001	---	---	TOTAL
MEAN	---	---	0.019	0.006	0.035	0.080	0.011	0.004	0.002	0	---	---	MEAN
MAX	---	---	0.065	0.013	0.188	0.255	0.042	0.012	0.011	0.001	---	---	MAX
MIN	---	---	0.002	0.001	0.003	0.007	0.001	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.019
MAXIMUM DAILY, 0.255 ON JUN 02
MINIMUM DAILY, 0 ON AUG 05
MAXIMUM INSTANTANEOUS,
0.298 AT 20:49 MST ON JUN 12

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 33 44 N
LONG 114 02 09 W
DRAINAGE AREA, 38.3 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	28.6
FEB	---	AUG	9.50
MAR	49.5	SEP	4.67
APR	14.3	OCT	0.086
MAY	94.2	NOV	---
JUN	206	DEC	---

TOTAL DISCHARGE, 407 dam³

SHEEP RIVER AT BLACK DIAMOND - STATION NO. 05BL014

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.870B	0.700B	1.11 B	2.10	2.98	49.5	14.3	13.1	4.79	2.33	2.26	1.50 B	1
2	0.900B	0.730B	1.12 B	2.09	3.60	78.2	12.8	11.9	4.55	2.33	1.98	1.45 B	2
3	1.00 B	0.770B	1.13 B	2.41	4.62	66.2	12.7	11.0	4.36	2.31	2.05B	1.50 B	3
4	1.07 B	0.810B	1.14 B	2.13	7.30	54.1	11.5	9.24	4.19	2.23	2.10B	1.60 B	4
5	1.09 B	0.860B	1.14 B	2.02	10.4	43.2	10.1	8.06	3.94	2.19	2.09B	1.65 B	5
6	1.10 B	0.880B	1.12 B	1.82	13.5	35.3	9.75	7.30	3.75	2.91	1.62B	1.60 B	6
7	1.11 B	0.890B	1.10 B	1.76	10.8	30.0	11.4	6.67	3.65	2.52	1.51B	1.40 B	7
8	1.10 B	0.900B	1.07 B	1.88	8.29	25.7	11.9	6.15	3.55	2.72	1.43B	1.25 B	8
9	1.08 B	0.880B	1.03 B	1.65	6.55	22.4	10.7	5.75	3.42	2.80	1.34B	1.15 B	9
10	1.02 B	0.860B	1.01 B	1.51	6.49	23.7	9.96	5.37	3.34	3.09	1.45B	1.10 B	10
11	0.930B	0.820B	0.990B	1.68	6.43	25.5	9.21	5.22	3.21	2.88	1.60B	1.08 B	11
12	0.855B	0.750B	0.965B	1.77	6.45	20.3	8.82	5.24	3.27	2.81	1.80B	1.06 B	12
13	0.845B	0.650B	0.956B	1.81	6.28	18.1	8.68	5.85	3.59	2.70	2.00B	1.05 B	13
14	0.840B	0.580B	0.950B	2.16	6.44	17.2	8.18	5.14	3.31	2.46	1.90B	1.08 B	14
15	0.860B	0.550B	0.944B	2.93	6.18	16.9	7.52	4.88	3.16	2.42	1.70B	1.10 B	15
16	0.930B	0.545B	0.950B	2.91	5.82	18.3	7.00	4.91	3.14	2.64	1.90B	1.20 B	16
17	1.02 B	0.540B	0.960B	3.09	5.74	19.7	6.60	4.84	2.99	2.49	1.80B	1.30 B	17
18	1.08 B	0.540B	0.970B	3.55	6.08	19.8	6.48	14.6	2.89	2.54	1.75B	1.37 B	18
19	1.12 B	0.545B	0.980B	3.92	6.36	19.6	7.95	9.84	2.92	2.43	1.65B	1.35 B	19
20	1.16 B	0.560B	0.975B	4.42	6.64	19.2	7.40	7.81	2.89	2.28	1.40B	1.20 B	20
21	1.18 B	0.600B	0.955B	4.89	7.43	18.4	6.73	6.51	2.84	2.38	1.20B	1.00 B	21
22	1.19 B	0.760B	0.900B	4.90	7.43	18.4	6.21	5.74	2.81	2.42	1.16B	0.900B	22
23	1.18 B	0.781B	0.860B	4.60	8.93	20.7	5.96	5.42	2.68	2.28	1.14B	0.850B	23
24	1.17 B	0.840B	0.835B	4.21	40.0 E	20.7	6.39	6.46	2.60	2.29	1.10B	0.870B	24
25	1.14 B	0.920B	0.850B	3.70	110 A	19.6	13.3	7.07	2.58	2.40	1.05B	0.910B	25
26	1.08 B	0.970B	0.890B	3.53	128	18.1	25.9	8.31	2.50	2.53	1.00B	0.960B	26
27	1.00 B	1.02 B	0.940B	3.22	72.3	17.1	24.0	7.46	2.42	2.32	1.21B	0.990B	27
28	0.880B	1.08 B	0.985B	2.80	48.0	15.4	20.3	6.57	2.38	2.44	1.40B	0.990B	28
29	0.790B		1.25 B	2.71	64.9	14.0	17.1	5.93	2.36	2.32	1.71B	0.900B	29
30	0.700B		1.34 B	2.65	73.8	14.1	16.2	5.40	2.37	2.51	1.60B	0.840B	30
31	0.690B		1.95 B		55.8		14.4	4.99		2.25		0.810B	31
TOTAL	30.980	21.331	32.365	84.82	753.54	800.2	349.44	222.73	96.47	77.92	47.90	36.010	TOTAL
MEAN	0.999	0.762	1.04	2.83	24.3	26.7	11.3	7.18	3.22	2.51	1.60	1.16	MEAN
MAX	1.19	1.08	1.95	4.90	128	78.2	25.9	14.6	4.79	2.79	2.26	1.65	MAX
MIN	0.690	0.540	0.835	1.51	2.98	14.0	5.96	4.84	2.36	2.21	1.00	0.810	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 7.00
MAXIMUM DAILY, 128 ON MAY 26
MINIMUM DAILY, 0.540B ON FEB 17
MAXIMUM INSTANTANEOUS,
207 AT 01:00 MST ON MAY 26

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 41 14 N
LONG 114 14 34 W
DRAINAGE AREA, 595 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	2 680	JUL	30 200
FEB	1 840	AUG	19 200
MAR	2 800	SEP	8 340
APR	7 330	OCT	6 730
MAY	65 100	NOV	4 140
JUN	69 100	DEC	3 110

TOTAL DISCHARGE, 221 000 dam³

SIFFLEUR RIVER NEAR THE MOUTH - STATION NO. 05DA002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	2.63	39.5	41.0	24.7	10.8	5.62	---	---	1
2	---	---	---	---	2.62	36.2	34.2	22.8	9.97	5.49	---	---	2
3	---	---	---	---	2.72	30.2	34.7	18.9	9.57	5.24	---	---	3
4	---	---	---	---	2.93	29.0	30.0	18.3	9.12	5.92	---	---	4
5	---	---	---	---	4.08	22.0	30.7	19.2	8.72	7.16	---	---	5
6	---	---	---	---	5.88	19.2	42.1	21.4	8.64	5.88	---	---	6
7	---	---	---	---	4.78	17.7	45.4	21.2	8.84	5.33B	---	---	7
8	---	---	---	---	4.29	17.8	38.6	19.7	9.06	5.29	---	---	8
9	---	---	---	---	4.01	18.2	35.9	19.1	8.86	5.21	---	---	9
10	---	---	---	---	3.77	22.6	37.4	18.8	8.84	5.22	---	---	10
11	---	---	---	---	3.78	27.2	38.0	18.9	8.90	4.81	---	---	11
12	---	---	---	---	3.83	23.1	41.3	19.6	8.95	4.61	---	---	12
13	---	---	---	---	3.88	21.0	46.6	20.8	8.33	4.52	---	---	13
14	---	---	---	---	3.80	18.6	40.5	22.6	7.51	4.18B	---	---	14
15	---	---	---	---	3.66	20.2	33.2	21.3	7.75	4.18B	---	---	15
16	---	---	---	---	3.55	24.0	38.1	20.0	9.01	4.18	---	---	16
17	---	---	---	---	3.52	30.0	32.3	18.9	8.27	3.84B	---	---	17
18	---	---	---	---	3.70	31.8	27.8	17.5	7.37	3.97	---	---	18
19	---	---	---	---	3.79	28.4	26.4	17.4	6.98	3.81	---	---	19
20	---	---	---	---	4.03	27.6	22.2	16.4	6.69	3.62B	---	---	20
21	---	---	---	---	4.68	27.5	20.2	17.8	6.45	3.75B	---	---	21
22	---	---	---	---	4.42	36.3	20.9	20.8	6.31	3.53	---	---	22
23	---	---	---	---	5.15	50.0	23.3	19.5	6.30	3.43B	---	---	23
24	---	---	---	3.50A	6.90	52.9	26.9	14.9	6.72	3.42	---	---	24
25	---	---	---	3.41	15.8	54.2	25.3	13.2	7.09	3.81	---	---	25
26	---	---	---	3.17	23.6	49.0	24.4	12.9	6.98	4.44	---	---	26
27	---	---	---	3.03	18.1	47.6	25.2	11.5	6.53	3.65	---	---	27
28	---	---	---	2.82	19.1	41.7	24.8	10.7	6.20	3.83	---	---	28
29	---	---	---	2.63	23.1	37.6	21.9	10.5	5.94	3.58	---	---	29
30	---		---	2.54	39.4	40.4	22.9	11.9	5.77	3.36	---	---	30
31	---		---		36.8		23.5	12.1		3.33A		---	31
TOTAL	---	---	---	---	272.34	940.5	975.7	552.9	236.47	138.21	---	---	TOTAL
MEAN	---	---	---	---	8.79	31.4	31.5	17.8	7.88	4.46	---	---	MEAN
MAX	---	---	---	---	39.4	54.2	46.6	24.7	10.8	7.16	---	---	MAX
MIN	---	---	---	---	2.62	17.7	20.2	10.5	5.77	3.33	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 16.9
MAXIMUM DAILY, 54.2 ON JUN 25
MINIMUM DAILY, 2.62 ON MAY 02
MAXIMUM INSTANTANEOUS,
64.3 AT 22:58 MST ON JUN 24

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 02 39 N
LONG 116 23 02 W
DRAINAGE AREA, 515 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	84 300
FEB	---	AUG	47 800
MAR	---	SEP	20 400
APR	---	OCT	11 900
MAY	23 500	NOV	---
JUN	81 300	DEC	---

TOTAL DISCHARGE, 269 000 dam³

SILVERHORN CREEK NEAR THE MOUTH - STATION NO. 05DA010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.070B	0.040B	0.062B	0.130B	0.118	1.77	2.25	1.30	0.497	0.217	0.112B	0.054B	1
2	0.068B	0.040B	0.063B	0.145B	0.123	1.70	1.86	1.09	0.459	0.218	0.108B	0.050B	2
3	0.064B	0.041B	0.064B	0.130B	0.133	1.48	1.92	0.885	0.430	0.211	0.103B	0.074B	3
4	0.065B	0.046B	0.056B	0.125B	0.151	1.31	1.58	0.815	0.408	0.226	0.100B	0.080B	4
5	0.067B	0.054B	0.050B	0.135B	0.202	0.889	1.84	0.883	0.395	0.219	0.109B	0.079B	5
6	0.068B	0.052B	0.054B	0.150B	0.247	0.716	3.37	1.03	0.385	0.209	0.110B	0.078B	6
7	0.070B	0.050B	0.050B	0.145B	0.213	0.706	2.90	0.945	0.383	0.203	0.109B	0.074B	7
8	0.066B	0.046B	0.054B	0.135B	0.212	0.708	2.53	0.861	0.376	0.198	0.108B	0.068B	8
9	0.070B	0.046B	0.050B	0.127B	0.222	0.712	2.62	0.814	0.371	0.196	0.106B	0.063B	9
10	0.066B	0.048B	0.046B	0.119B	0.223	1.02	2.47	0.766	0.369	0.189	0.105B	0.059B	10
11	0.060B	0.051B	0.047B	0.128B	0.222	1.32	2.58	0.760	0.366	0.186	0.112B	0.054B	11
12	0.052B	0.052B	0.050B	0.140B	0.218	0.851	3.23	0.795	0.347	0.179	0.126B	0.050B	12
13	0.054B	0.046B	0.046B	0.150B	0.215	0.699	3.63	0.841	0.335	0.175	0.145B	0.051B	13
14	0.057B	0.040B	0.042B	0.165B	0.208	0.643	2.32	0.973	0.324	0.168	0.130B	0.053B	14
15	0.060B	0.042B	0.045B	0.165B	0.202	0.838	1.73	0.841	0.310	0.165	0.120B	0.055B	15
16	0.057B	0.044B	0.047B	0.167B	0.199	1.09	2.36	0.790	0.303	0.162	0.105B	0.057B	16
17	0.054B	0.040B	0.050B	0.170B	0.199	1.26	1.63	0.744	0.293	0.148B	0.097B	0.060B	17
18	0.050B	0.036B	0.044B	0.167B	0.204	1.66	1.30	0.663	0.284	0.151	0.091B	0.057B	18
19	0.049B	0.036B	0.048B	0.162B	0.206	1.48	1.20	0.615	0.280	0.151	0.086B	0.054B	19
20	0.050B	0.043B	0.050B	0.158B	0.212	1.47	0.958	0.600	0.270	0.133B	0.082B	0.050B	20
21	0.053B	0.048B	0.045B	0.152B	0.223	1.60	0.889	0.870	0.260	0.127	0.079B	0.045B	21
22	0.055B	0.053B	0.042B	0.147B	0.220	2.48	0.996	1.15	0.253	0.132	0.075B	0.040B	22
23	0.060B	0.059B	0.040B	0.143B	0.235	3.98	1.13	0.959	0.244	0.132	0.092B	0.046B	23
24	0.059B	0.064B	0.046B	0.136B	0.262	4.33	1.23	0.732	0.237	0.124	0.080B	0.050B	24
25	0.056B	0.063B	0.056B	0.133	0.335	3.93	1.18	0.625	0.234	0.133	0.072B	0.054B	25
26	0.058B	0.062B	0.070B	0.133	0.652	3.33	1.15	0.587	0.230	0.134	0.060B	0.058B	26
27	0.057B	0.061B	0.080B	0.132	0.750	2.98	1.27	0.539	0.231	0.127	0.065B	0.060B	27
28	0.056B	0.061B	0.090B	0.125	0.957	2.23	1.18	0.494	0.228	0.128	0.070B	0.050B	28
29	0.055B		0.100B	0.121B	1.36	1.95	1.02	0.485	0.226	0.122	0.074B	0.040B	29
30	0.052B		0.120B	0.113B	2.10	2.72	1.06	0.561	0.220	0.125	0.064B	0.044B	30
31	0.046B		0.145B		1.56		1.08	0.549		0.118A		0.052B	31
TOTAL	1.823	1.364	1.852	4.248	12.583	52.232	56.463	24.562	9.548	5.106	2.895	1.759	TOTAL
MEAN	0.059	0.049	0.060	0.142	0.406	1.74	1.82	0.792	0.318	0.165	0.097	0.057	MEAN
MAX	0.070	0.064	0.145	0.170	2.10	4.33	3.63	1.30	0.497	0.226	0.145	0.080	MAX
MIN	0.046	0.036	0.040	0.113	0.118	0.643	0.889	0.485	0.220	0.118	0.060	0.040	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.478
MAXIMUM DAILY, 4.33 ON JUN 24
MINIMUM DAILY, 0.036B ON FEB 18
MAXIMUM INSTANTANEOUS,
5.45 AT 21:42 MST ON JUN 24

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 48 00 N
LONG 116 34 59 W
DRAINAGE AREA, 20.7 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	158	JUL	4 880
FEB	118	AUG	2 120
MAR	160	SEP	825
APR	367	OCT	441
MAY	1 090	NOV	250
JUN	4 510	DEC	152

TOTAL DISCHARGE, 15 100 dam³

SIMONETTE RIVER NEAR GOODWIN - STATION NO. 07GF001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	3.18B	20.0B	35.0E	221	23.0	7.43	6.01	4.97	5.80A	---	1
2	---	---	3.28B	23.0B	37.0E	148 A	21.7	7.05	8.58	4.92	---	---	2
3	---	---	3.42B	23.4B	39.0E	107 A	22.6	7.52	11.1	4.85	---	---	3
4	---	---	3.56B	23.5E	40.0E	88.7A	39.3	7.18	9.62	4.77	---	---	4
5	---	---	3.74B	22.0E	42.0E	135	68.2 A	6.76	8.35	4.92	---	---	5
6	---	---	3.84B	21.0E	43.0E	190 A	53.9 A	6.35	7.29	4.95	---	---	6
7	---	---	3.90B	19.5E	44.0E	127 A	84.3	5.86	6.36	5.15	---	---	7
8	---	---	3.96B	18.0E	41.0E	88.0A	76.4 A	5.64	5.78	5.44	---	---	8
9	---	3.05B	3.90B	16.5E	37.0E	70.2A	54.1 A	5.43	5.51	5.49	---	---	9
10	---	---	3.82B	16.0E	43.0E	61.1A	41.4 A	5.21	5.27	5.49	---	---	10
11	---	---	3.76B	15.5E	46.0E	66.4	32.9 A	5.02	4.94	5.61	---	---	11
12	---	---	3.72B	16.0A	46.0E	551 A	27.0 A	4.79	4.71	6.30	---	---	12
13	---	---	3.68B	16.9	45.0E	845 A	23.6 A	4.60	4.55	7.36	---	---	13
14	---	---	3.96B	17.5	44.6A	494 A	19.8 A	4.39	4.42	7.24	---	---	14
15	---	---	4.32B	19.1	50.2	334 A	17.9 A	4.31	4.72A	6.82	---	---	15
16	---	---	4.64B	22.6	49.3	223	16.3 A	4.37	5.24A	6.45	---	---	16
17	---	---	5.16B	21.7	46.8	159	15.6 A	5.15	5.51A	6.00	---	---	17
18	---	---	6.00B	22.2	44.2	115	14.4 A	5.37	5.37	5.37	---	---	18
19	---	---	7.28B	26.8	47.8	87.6	13.4 A	7.25	17.2	5.11	---	---	19
20	---	2.65B	7.10B	39.2	49.2A	70.4	12.9 A	7.40	15.0	5.05	---	---	20
21	---	2.80B	7.00B	45.0	46.6A	57.8	11.9 A	7.01	11.9	5.03	---	---	21
22	---	2.88B	6.85B	46.5	49.2	49.8	11.1 A	6.06	10.0	5.03	---	---	22
23	---	2.94B	6.70B	46.7	55.4A	42.9	10.4 A	5.33	8.79	4.58	---	---	23
24	---	3.00B	6.30B	48.6	52.2A	38.6	9.83	5.13	7.79	4.45	---	---	24
25	---	3.04B	6.13B	74.2	49.0	34.3	9.57	4.95	7.05	4.85	---	---	25
26	---	3.08B	6.03B	106 A	74.6	31.7	9.23	4.78	6.42	5.03	---	---	26
27	---	3.10B	6.43B	90.0E	120 A	29.1	8.97	4.82	6.06	6.16	---	---	27
28	---	3.14B	7.55B	60.0E	91.9A	28.4	8.72	4.89	5.67	6.65	---	---	28
29	---		9.70B	48.0E	64.3A	25.9	8.40	4.86	5.40	6.76	---	---	29
30	---		11.5 B	33.0E	54.2A	24.2	8.04	5.30	5.10	6.58	---	---	30
31	---		13.5 B		97.9		7.84	5.96		6.37		---	31
TOTAL	---	---	173.91	1 018.4	1 625.4	4 544.1	782.70	176.17	219.71	173.75	---	---	TOTAL
MEAN	---	---	5.61	33.9	52.4	151	25.2	5.68	7.32	5.60	---	---	MEAN
MAX	---	---	13.5	106	120	845	84.3	7.52	17.2	7.36	---	---	MAX
MIN	---	---	3.18	15.5	35.0	24.2	7.84	4.31	4.42	4.45	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 35.6
MAXIMUM DAILY, 845A ON JUN 13
MINIMUM DAILY, 3.18B ON MAR 01
MAXIMUM INSTANTANEOUS,
1 020 AT 02:00 MST ON JUN 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 08 30 N
LONG 118 10 30 W
DRAINAGE AREA, 5 050 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	67 600
FEB	---	AUG	15 200
MAR	15 000	SEP	19 000
APR	88 000	OCT	15 000
MAY	140 000	NOV	---
JUN	393 000	DEC	---

TOTAL DISCHARGE, 753 000 dam³

REMARKS - PEAK DISCHARGE DERIVED FROM HIGH WATER MARKS.

SLAVE RIVER AT FITZGERALD - STATION NO. 07NB001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2 700B	2 990B	2 480B	2 090B	3 600B	5 280E	5 850	4 140	3 410	3 370	2 700B	2 070B	1
2	2 750B	3 090B	2 500B	2 180B	3 660B	5 280E	5 770	3 920	3 340	3 430	2 740B	1 940B	2
3	2 790B	3 130B	2 450B	2 280B	3 860B	5 310E	5 690	3 950	3 250	3 490	2 580B	2 010B	3
4	2 830B	3 080B	2 400B	2 370B	4 420B	5 400E	5 610	4 100	3 160	3 480	2 420B	2 110B	4
5	2 850B	2 950B	2 360B	2 420B	4 900B	5 600E	5 530	4 140	3 100	3 430	2 510B	2 140B	5
6	2 860B	2 820B	2 340B	2 470B	5 400B	6 000E	5 430	4 120	3 170	3 400	2 470B	2 140B	6
7	2 870B	2 710B	2 310B	2 560B	5 200B	6 380E	5 370	3 970	3 210	3 380	2 480B	2 110B	7
8	2 880B	2 630B	2 300B	2 720B	4 840A	6 500E	5 290	3 710	3 300	3 360	2 300B	2 130B	8
9	2 890B	2 550B	2 300B	2 890B	4 670	6 400E	5 180	3 850	3 390	3 270	2 090B	2 180B	9
10	2 900B	2 510B	2 290B	2 960B	4 680	6 240E	5 190	3 850	3 390	3 250	2 020B	2 230B	10
11	2 890B	2 600B	2 300B	2 990B	4 700	6 180E	5 270	3 800	3 430	3 380	1 960B	2 240B	11
12	2 880B	2 630B	2 310B	2 990B	4 770	6 020E	5 350	3 680	3 450	3 450	1 880B	2 360B	12
13	2 810B	2 670B	2 310B	2 970B	4 860	5 980E	5 460	3 560	3 460	3 540	1 940B	2 490B	13
14	2 750B	2 690B	2 290B	2 970B	4 980	5 920A	5 200	3 490	3 400	3 500	2 000B	2 490B	14
15	2 750B	2 700B	2 250B	2 950B	5 100	5 860	5 200	3 430	3 420	3 410	2 040B	2 500B	15
16	2 790B	2 710B	2 180B	2 900B	5 200	6 740	5 190	3 490	3 390	3 420	2 060B	2 470B	16
17	2 840B	2 780B	2 150B	2 830B	5 180	8 220	5 110	3 630	3 350	3 420	2 060B	2 550B	17
18	2 900B	2 800B	2 120B	2 790B	5 080	8 830	5 010	3 720	3 250	3 410	2 080B	2 470B	18
19	3 000B	2 790B	2 110B	2 790B	5 040	8 620	5 030	3 670	3 310	3 390	2 110B	2 340B	19
20	3 090B	2 780B	2 110B	2 710B	4 950	7 960	5 060	3 670	3 500	3 330	2 130B	2 170B	20
21	3 120B	2 850B	2 130B	2 740B	4 940	7 410	5 050	3 590	3 560	3 300	2 160B	2 280B	21
22	3 150B	2 820B	2 100B	2 800B	4 990	7 150	4 990	3 620	3 590	3 310	2 180B	2 270B	22
23	3 180B	2 800B	2 050B	2 860B	4 990	6 960	4 840	3 620	3 620	3 310	2 220B	2 240B	23
24	3 160B	2 740B	2 010B	2 920B	5 010	6 760	4 700	3 530	3 650	3 240	2 230B	2 180B	24
25	3 150B	2 670B	2 010B	3 130B	5 040	6 600	4 550	3 490	3 580	3 150	2 080B	2 100B	25
26	3 120B	2 590B	2 000B	3 400B	5 110	6 450	4 470	3 580	3 530	3 130	2 010B	2 030B	26
27	3 150B	2 490B	1 990B	3 540B	5 170	6 310	4 400	3 530	3 510	3 080B	2 050B	1 980B	27
28	3 100B	2 410B	1 980B	3 850B	5 300	6 170	4 340	3 450	3 530	3 020B	2 060B	1 940B	28
29	3 020B		1 960B	3 580B	5 300	6 030	4 300	3 360	3 380	2 850B	2 110B	1 920B	29
30	2 920B		1 940B	3 540B	5 310	5 950	4 230	3 330	3 300	2 730B	2 170B	1 910B	30
31	2 900B		2 000B		5 290A		4 160	3 380		2 690B		1 900B	31
TOTAL	90 990	76 980	68 030	85 190	151 540	194 510	156 830	114 370	101 930	101 920	65 840	67 890	TOTAL
MEAN	2 940	2 750	2 190	2 840	4 890	6 480	5 060	3 690	3 400	3 290	2 190	2 190	MEAN
MAX	3 180	3 130	2 500	3 850	5 400	8 830	5 860	4 140	3 650	3 540	2 740	2 550	MAX
MIN	2 700	2 410	1 940	2 090	3 600	5 280	4 160	3 330	3 100	2 690	1 880	1 900	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3 500
MAXIMUM DAILY, 8 830 ON JUN 18
MINIMUM DAILY, 1 880B ON NOV 12
MAXIMUM INSTANTANEOUS,
8 890 AT 22:19 MST ON JUN 18

TYPE OF GAUGE - RECORDING
LOCATION - LAT 59 52 20 N
LONG 111 35 00 W
DRAINAGE AREA, 606 000 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1968

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	7 860 000	JUL	13 600 000
FEB	6 650 000	AUG	9 880 000
MAR	5 880 000	SEP	8 810 000
APR	7 360 000	OCT	8 810 000
MAY	13 100 000	NOV	5 690 000
JUN	16 800 000	DEC	5 870 000

TOTAL DISCHARGE, 110 000 000 dam³

SMOKY RIVER ABOVE HELLS CREEK - STATION NO. 07GA001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	13.7B	14.7B	37.3	489	299	174	106	49.7	32.4	---	1
2	---	---	13.6B	15.5B	39.1	389	279	149	93.2	49.9	29.0	---	2
3	---	---	13.6B	15.0B	41.9	349	267	135	82.1	46.1	26.8B	---	3
4	---	---	13.5B	14.6B	55.3	348	271	130	74.2	46.3	25.5B	---	4
5	---	---	13.4B	14.9B	66.6	298	249	138	71.5	45.6	24.3B	---	5
6	---	---	13.3B	15.9B	114	260	317	154	72.8	41.6	23.0B	---	6
7	---	---	13.2B	16.2B	114	249	354	156	76.0	38.9	28.3B	---	7
8	---	---	13.2B	16.0B	89.5	250	317	133	80.6	37.6	---	---	8
9	---	---	13.1B	14.7B	79.3	258	308	130	76.7	38.8	---	---	9
10	---	---	13.0B	14.6B	76.6	257	294	131	76.1	45.9	---	---	10
11	---	---	12.9B	15.8B	79.9	324	284	138	76.4	41.8	---	---	11
12	---	---	12.9B	17.2B	79.4	398	308	146	77.4	39.2	---	---	12
13	---	---	12.8B	17.2	73.6	403	333	152	68.5	37.6	---	---	13
14	---	---	12.9B	17.7	70.3	347	283	161	65.0	35.6	---	---	14
15	---	---	12.7B	18.8	71.3	336	236	156	68.4	32.3	---	---	15
16	---	---	12.7B	18.2	76.4	371	217	150	88.0	30.2	---	---	16
17	---	---	12.7B	19.4	84.2	383	198	140	156	30.1	---	---	17
18	---	---	12.8B	21.6	94.7	350	174	131	108	30.2	---	---	18
19	---	---	12.8B	26.3	107	349	161	120	93.1	29.4	---	---	19
20	---	---	12.9B	31.1	123	331	143	120	82.1	28.5	---	---	20
21	---	---	12.9B	39.7	142	326	141	120	74.8	28.0	---	---	21
22	---	---	12.0B	42.0	141	356	146	127	76.5	28.0	---	---	22
23	---	---	12.4B	45.1	143	436	155	127	78.2	27.2	---	---	23
24	---	---	12.5B	50.7	169	452	166	105	85.6	27.7	---	---	24
25	---	---	12.4B	50.6	209	372	173	87.6	84.1	32.7	---	---	25
26	---	---	12.5B	49.4	276	340	184	80.3	76.5	49.4	---	---	26
27	---	---	13.4B	44.8	315	311	188	74.6	64.8	48.6	---	---	27
28	---	13.8B	13.8B	39.8	332	286	173	70.1	59.3	44.1	---	---	28
29	---		13.4B	36.8	367	280	164	73.3	57.1	43.9	---	---	29
30	---		14.4B	35.0	423	268	164	89.2	54.1	38.6	---	---	30
31	---		15.3B		536		171	122		33.1		---	31
TOTAL	---	---	406.6	789.3	4 623.4	10 168	7 137	3 938.1	2 403.1	1 176.6	---	---	TOTAL
MEAN	---	---	13.1	26.3	149	339	230	127	80.1	38.0	---	---	MEAN
MAX	---	---	15.3	50.7	536	489	354	174	156	49.9	---	---	MAX
MIN	---	---	12.0	14.6	37.3	249	141	70.1	54.1	27.2	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 125
MAXIMUM DAILY, 536 ON MAY 31
MINIMUM DAILY, 12.0B ON MAR 22
MAXIMUM INSTANTANEOUS
563 AT 12:46 MST ON MAY 31

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 56 46 N
LONG 119 09 40 W
DRAINAGE AREA, 3 840 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	617 000
FEB	---	AUG	340 000
MAR	35 100	SEP	208 000
APR	68 200	OCT	102 000
MAY	399 000	NOV	---
JUN	879 000	DEC	---

TOTAL DISCHARGE, 2 650 000 dam³

SMOKY RIVER AT WATINO - STATION NO. 07GJ001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	90.5B	58.2B	64.6B	190B	319	2 260	700E	311	162	122	128	66.0B	1
2	85.4B	56.1B	65.8B	195B	306	2 230	720E	309	204	120	120	66.6B	2
3	83.1B	57.6B	67.6B	200B	313	1 880	700E	307	207	116	109	64.6B	3
4	81.8B	52.7B	71.0B	201B	323	1 630	915A	287	205	114	100	65.4B	4
5	79.9B	43.0B	73.4B	230B	332	1 720	1 100A	258A	197	113	84.8	65.2B	5
6	81.6B	44.2B	77.0B	239B	363	1 790	1 010	246A	177	115	57.6B	65.2B	6
7	84.3B	40.6B	78.6B	231B	457	1 600	997	250A	162	115	61.2B	66.4B	7
8	88.5B	41.9B	81.6B	214B	613	1 430	1 120	256A	155	114	66.4B	64.4B	8
9	89.4B	61.0B	82.0B	201B	561	1 320	999	253	149	110	68.0B	62.8B	9
10	102 B	65.5B	81.0B	173B	498	1 260	917	231	148	108	63.8B	59.2B	10
11	104 B	65.4B	83.8B	156B	474	1 270	856	222	142	107	72.8B	62.8B	11
12	103 B	64.7B	83.2B	145	473	3 850A	777	218	136	112	67.8B	62.0B	12
13	99.8B	60.4B	81.4B	132	470	6 620A	732	217	134	126	62.4B	61.2B	13
14	93.0B	58.3B	77.6B	126	480	7 180A	729	221	133	125	69.0B	57.6B	14
15	92.4B	57.8B	70.6B	138	514	4 140A	699	232	131	120	67.6B	56.6B	15
16	90.6B	56.1B	76.0B	152	520	2 750A	638A	242	124	118	64.8B	56.1B	16
17	88.4B	53.4B	83.6B	164	511	2 190A	590E	241	128	116	73.0B	58.0B	17
18	92.2B	47.6B	95.2B	176	520	1 960A	540E	236	144	108	73.6B	56.0B	18
19	93.4B	47.0B	111 B	181	578	1 610A	500E	236	229	103	74.6B	58.8B	19
20	91.8B	49.2B	116 B	210	637	1 450	460E	229	208	101	73.8B	58.0B	20
21	91.2B	51.3B	112 B	256	671	1 270	430E	213	186	102	72.8B	58.8B	21
22	86.6B	52.2B	110 B	304	722	1 160	400E	202	169	99.1	72.0B	56.3B	22
23	77.0B	52.7B	99.0B	342	747	1 110	375E	200	157	97.9	71.0B	53.9B	23
24	70.8B	55.1B	84.8B	357	732	1 110	355E	200	154	101	70.2B	46.8B	24
25	76.8B	58.4B	91.0B	403	770	1 130	340E	203	150	98.3	69.0B	45.0B	25
26	87.1B	58.4B	86.6B	526	901	1 020	340E	186	153	99.9	64.4B	49.4B	26
27	80.7B	59.4B	89.2B	542	1 290	916	350A	170	152	107	64.0B	49.4B	27
28	72.3B	62.8B	89.8B	488	1 370	849	364	159	146	122	64.0B	48.0B	28
29	68.6B		110 B	419	1 300	795	357	151	136	138	64.4B	48.3B	29
30	65.9B		140 B	361	1 320	746A	334	146	127	132	67.0B	47.1B	30
31	61.7B		180 B		1 500		313	148		131		46.1B	31
TOTAL	2 653.8	1 531.2	2 819.4	7 652	20 585	62 236	19 657	6 980	4 805	3 509.2	2 237.0	1 782.0	TOTAL
MEAN	85.6	54.7	90.9	255	664	2 070	634	225	160	113	74.6	57.5	MEAN
MAX	104	65.5	180	542	1 500	8 620	1 120	311	229	138	128	66.6	MAX
MIN	61.7	40.8	64.6	126	306	746	313	146	124	97.9	57.6	45.0	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 374
MAXIMUM DAILY, 8 620A ON JUN 13
MINIMUM DAILY, 40.8B ON FEB 07
MAXIMUM INSTANTANEOUS
9 400 AT 13:00 MST ON JUN 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 42 56 N
LONG 117 37 19 W
DRAINAGE AREA, 50 300 km²

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	229 000	JUL	1 700 000
FEB	132 000	AUG	603 000
MAR	244 000	SEP	415 000
APR	661 000	OCT	303 000
MAY	1 700 000	NOV	193 000
JUN	5 300 000	DEC	154 000

TOTAL DISCHARGE, 11 800 000 dam³

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARK.

SNAKE CREEK NEAR VULCAN - STATION NO. 05AC030

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	0 B	0.494B	0.003	0	0	0	0	0	0	---	---	1
2	---	0 B	0.580B	0.008	0	0.048	0	0	0	0	---	---	2
3	---	0 B	0.663B	0.010	0	0.113	0	0	0	0	---	---	3
4	---	0 B	0.494B	0.028	0	0.056	0	0	0	0	---	---	4
5	---	0 B	0.402B	0.012	0	0.051	0	0	0	0	---	---	5
6	---	0 B	0.229B	0.006	0	0.054	0	0	0	0	---	---	6
7	---	0 B	0.116B	0.004	0	0.033	0	0	0	0	---	---	7
8	---	0 B	0.039B	0.004	0	0.012	0	0	0	0	---	---	8
9	---	0 B	0.017B	0.003B	0	0.003	0	0	0	0	---	---	9
10	---	0 B	0.008B	0.004B	0	0.002	0	0	0	0	---	---	10
11	---	0 B	0.002B	0.003B	0	0.001	0	0	0	0	---	---	11
12	---	0 B	0.003B	0.005	0	0	0	0	0	0	---	---	12
13	---	0 B	0.003B	0.003	0	0	0	0	0	0	---	---	13
14	---	0 B	0.015B	0.003	0	0	0	0	0	0	---	---	14
15	---	0 B	0.027B	0.002	0	0	0	0	0	0	---	---	15
16	---	0 B	0.023B	0.002	0	0	0	0	0	0	---	---	16
17	---	0 B	0.019B	0.002	0	0	0	0	0	0	---	---	17
18	---	0 B	0.043B	0.001	0	0	0	0	0	0	---	---	18
19	---	0 B	0.080B	0.001	0	0	0	0	0	0	---	---	19
20	---	0 B	0.068B	0.001	0	0	0	0	0	0	---	---	20
21	---	0 B	0.060B	0.001	0	0	0	0	0	0	---	---	21
22	---	0.308B	0.040B	0.002	0	0	0	0	0	0	---	---	22
23	OB	0.714B	0.029B	0.002	0	0	0	0	0	0	---	---	23
24	OB	0.590B	0.030B	0.001	0	0	0	0	0	0	---	---	24
25	OB	0.861B	0.032B	0	0	0	0	0	0	0	---	---	25
26	OB	0.550B	0.027	0	0	0	0	0	0	0	---	---	26
27	OB	0.618B	0.018	0	0	0	0	0	0	0	---	---	27
28	OB	0.630B	0.011	0	0	0	0	0	0	0	---	---	28
29	OB		0.006	0	0.040	0	0	0	0	0A	---	---	29
30	OB		0.004	0	0.035	0	0	0	0	0E	---	---	30
31	OB		0.003		0		0	0		0E		---	31
TOTAL	---	4.291	3.607	0.111	0.075	0.373	0	0	0	0	---	---	TOTAL
MEAN	---	0.153	0.116	0.004	0.002	0.012	0	0	0	0	---	---	MEAN
MAX	---	0.861	0.663	0.028	0.040	0.113	0	0	0	0	---	---	MAX
MIN	---	0	0.002	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS FEB TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.031
MAXIMUM DAILY, 0.861B ON FEB 25
MINIMUM DAILY, 0B ON FEB 01
MAXIMUM INSTANTANEOUS,
1.17B AT 17:23 MST ON FEB 22

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 20 20 N
LONG 112 54 46 W

DRAINAGE AREA, 350 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	371	AUG	0
MAR	312	SEP	0
APR	9.59	OCT	0
MAY	6.48	NOV	---
JUN	32.2	DEC	---

TOTAL DISCHARGE, 731 dam³

SNAKE INDIAN RIVER NEAR THE MOUTH - STATION NO. 07AB002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	13.3E	157	90.7	58.0	36.9	18.5	14.5A	---	1
2	---	---	---	---	13.8E	137	89.2	53.7	33.1	18.5	13.6B	---	2
3	---	---	---	---	14.2E	124	96.8	47.4	29.8	17.8	12.7B	---	3
4	---	---	---	---	15.3A	123	92.6	43.9	26.8	18.0	11.8B	---	4
5	---	---	---	---	17.4	107	81.6	44.1	25.1	18.0	10.9B	---	5
6	---	---	---	---	23.1	86.5	120	46.4	24.7	16.9	10.0B	---	6
7	---	---	---	---	26.5	78.4	174	48.1	24.6	16.3	---	---	7
8	---	---	---	---	24.1	77.0	139	44.3	24.8	15.9	---	---	8
9	---	---	---	---	22.0	75.9	121	41.7	24.5	16.1	---	---	9
10	---	---	---	---	21.2	74.7A	112	41.5	23.9	16.4	---	---	10
11	---	---	---	---	20.9	74.0E	104	41.6	23.9	15.9	---	---	11
12	---	---	---	---	21.2	74.5E	107 A	43.3	24.1	15.6	---	---	12
13	---	---	---	---	20.8	74.5E	109 E	44.9	23.6	15.2	---	---	13
14	---	---	---	---	20.4	75.0E	110 E	45.6	21.8	14.6A	---	---	14
15	---	---	---	---	20.4	76.0E	102 E	46.0	21.8	14.2E	---	---	15
16	---	---	---	---	21.2	77.5E	95.0E	43.5	27.5	13.9E	---	---	16
17	---	---	---	---	22.8	79.0E	88.0E	42.3	46.7	13.6E	---	---	17
18	---	---	---	---	24.6	80.5E	81.0E	39.5	41.9	13.4E	---	---	18
19	---	---	---	---	26.9	82.5E	74.0E	36.1	35.3	13.1E	---	---	19
20	---	---	---	---	33.8	85.5E	67.0E	34.7	31.0	12.8E	---	---	20
21	---	---	---	---	39.6	90.0E	60.0E	34.8	27.5	12.6E	---	---	21
22	---	---	---	---	40.2	94.0E	57.5E	36.5	26.7A	12.4E	---	---	22
23	---	---	---	---	39.4	101 E	56.5E	39.7	26.0	12.2E	---	---	23
24	---	---	---	14.3A	43.9	107 E	57.7A	36.9	26.5	12.0E	---	---	24
25	---	---	---	14.2	51.7	111 E	58.8	32.8	26.3	16.1A	---	---	25
26	---	---	---	13.7A	69.5	108 A	60.6	32.3	24.7	21.5	---	---	26
27	---	---	---	13.4E	82.5	100	64.1	29.7	23.2	19.5	---	---	27
28	---	---	---	13.2E	93.3	90.4	64.9	28.5	20.9	19.0	---	---	28
29	---	---	---	13.1E	108	87.1	64.9	29.5	20.0	17.7	---	---	29
30	---		---	13.2E	117	84.7	65.9	29.4	19.2	16.6	---	---	30
31	---		---		166		58.4	35.2		14.9		---	31
TOTAL	---	---	---	---	1 299.7	2 795.2	2 702.6	1 258.1	812.2	489.2	---	---	TOTAL
MEAN	---	---	---	---	41.9	93.2	87.2	40.6	27.1	15.8	---	---	MEAN
MAX	---	---	---	---	166	157	174	58.0	46.7	21.5	---	---	MAX
MIN	---	---	---	---	13.3	74.0	55.9	28.5	19.2	12.0	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO SEP

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 58.0
MAXIMUM DAILY, 174 ON JUL 07
MINIMUM DAILY, 13.3E ON MAY 01
MAXIMUM INSTANTANEOUS,
183 AT 04:30 MST ON JUL 07

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 09 28 N
LONG 118 01 58 W

DRAINAGE AREA, 1 580 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	234 000
FEB	---	AUG	109 000
MAR	---	SEP	70 200
APR	---	OCT	489.2
MAY	112 000	NOV	---
JUN	242 000	DEC	---

TOTAL DISCHARGE, 767 000 dam³

SOUNDING CREEK NEAR CHINOOK - STATION NO. 05GA012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.010	0	0	0	0	0	0	---	---	1
2	---	---	0 B	0.005	0	0	0	0	0	0	---	---	2
3	---	---	0 B	0.001	0	0	0	0	0	0	---	---	3
4	---	---	0 B	0	0	0	0	0	0	0	---	---	4
5	---	---	0 B	0	0	0	0	0	0	0	---	---	5
6	---	---	0 B	0	0	0	0	0	0	0	---	---	6
7	---	---	0 B	0	0	0	0	0	0	0	---	---	7
8	---	---	0.030D	0	0	0	0	0	0	0	---	---	8
9	---	---	0.050D	0	0	0	0	0	0	0	---	---	9
10	---	---	0.025B	0	0	0	0	0	0	0	---	---	10
11	---	---	0.013B	0	0	0	0	0	0	0	---	---	11
12	---	---	0.004B	0	0	0	0	0	0	0	---	---	12
13	---	---	0 B	0	0	0	0	0	0	0	---	---	13
14	---	---	0 B	0	0	0	0	0	0	0	---	---	14
15	---	---	0 B	0	0	0	0	0	0	0	---	---	15
16	---	---	0 B	0	0	0	0	0	0	0	---	---	16
17	---	---	0 B	0	0	0	0	0	0	0	---	---	17
18	---	---	0 B	0	0	0	0	0	0	0	---	---	18
19	---	---	0.001B	0	0	0	0	0	0	0	---	---	19
20	---	---	0.021B	0	0	0	0	0	0	0	---	---	20
21	---	---	0.037B	0	0	0	0	0	0	0	---	---	21
22	---	---	0.014B	0	0	0	0	0	0	0	---	---	22
23	---	---	0.008B	0	0	0	0	0	0	0	---	---	23
24	---	---	0.004B	0	0	0	0	0	0	0	---	---	24
25	---	---	0.002B	0	0	0	0	0	0	0	---	---	25
26	---	OB	0.003B	0	0	0	0	0	0	0	---	---	26
27	---	OB	0.009B	0	0	0	0	0	0	0	---	---	27
28	---	OB	0.028B	0	0	0	0	0	0	0	---	---	28
29	---		0.053B	0	0	0	0	0	0	0	---	---	29
30	---		0.032B	0	0	0	0	0	0	OA	---	---	30
31	---		0.021		0		0	0		OE		---	31
TOTAL	---	---	0.355	0.016	0	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.012	0.001	0	0	0	0	0	0	---	---	MEAN
MAX	---	---	0.053	0.010	0	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.002
MAXIMUM DAILY, 0.053B ON MAR 29
MINIMUM DAILY, OB ON MAR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 32 52 N
LONG 110 55 11 W
DRAINAGE AREA, 2 280 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	30.7	SEP	0
APR	1.38	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 32.1 dam³

SOUNDING CREEK NEAR OYEN - STATION NO. 05GA008

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.028	0	0	0	0	0	0	---	---	1
2	---	---	0 B	0.016	0	0	0	0	0	0	---	---	2
3	---	---	0 B	0.013	0	0	0	0	0	0	---	---	3
4	---	---	0 B	0.011	0	0	0	0	0	0	---	---	4
5	---	---	0 B	0.008	0	0	0	0	0	0	---	---	5
6	---	---	0 B	0.006	0	0	0	0	0	0	---	---	6
7	---	---	0.015B	0.004	0	0	0	0	0	0	---	---	7
8	---	---	0.026B	0.003	0	0	0	0	0	0	---	---	8
9	---	---	0.044B	0.001	0	0	0	0	0	0	---	---	9
10	---	---	0.011B	0	0	0	0	0	0	0	---	---	10
11	---	---	0.008	0	0	0	0	0	0	0	---	---	11
12	---	---	0.003	0	0	0	0	0	0	0	---	---	12
13	---	---	0	0	0	0	0	0	0	0	---	---	13
14	---	---	0	0	0	0	0	0	0	0	---	---	14
15	---	---	0	0	0	0	0	0	0	0	---	---	15
16	---	---	0.005	0	0	0	0	0	0	0	---	---	16
17	---	---	0.006	0	0	0	0	0	0	0	---	---	17
18	---	---	0.004	0	0	0	0	0	0	0	---	---	18
19	---	---	0.001	0	0	0	0	0	0	0	---	---	19
20	---	---	0	0	0	0	0	0	0	0	---	---	20
21	---	---	0	0	0	0	0	0	0	0	---	---	21
22	---	---	0	0	0	0	0	0	0	0	---	---	22
23	---	---	0	0	0	0	0	0	0	0	---	---	23
24	---	---	0	0	0	0	0	0	0	0	---	---	24
25	---	---	0	0	0	0	0	0	0	0	---	---	25
26	---	OB	0	0	0	0	0	0	0	0	---	---	26
27	---	OB	0	0	0	0	0	0	0	0	---	---	27
28	---	OB	0	0	0	0	0	0	0	0	---	---	28
29	---		0	0	0	0	0	0	0	0	---	---	29
30	---		0	0	0	0	0	0	0	0	---	---	30
31	---		0.005		0		0	0		0		---	31
TOTAL	---	---	0.128	0.092	0	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.004	0.003	0	0	0	0	0	0	---	---	MEAN
MAX	---	---	0.044	0.028	0	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.001
MAXIMUM DAILY, 0.044B ON MAR 09
MINIMUM DAILY, OB ON MAR 01
MAXIMUM INSTANTANEOUS,
0.075B AT 09:27 MST ON MAR 09

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 33 55 N
LONG 110 28 25 W
DRAINAGE AREA, 3 000 km²
B - ICE CONDITIONS
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	11.1	SEP	0
APR	7.95	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 19.0 dam³

SOUSA CREEK NEAR HIGH LEVEL - STATION NO. 07QA001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.037B	0.079B	9.01	5.24	0.668	0.148	0.011	0.003	0.025B	---	1
2	---	---	0.037B	0.090B	9.00	5.17	0.715	0.154	0.011	0.008	---	---	2
3	---	---	0.038B	0.103B	9.22	4.98	0.712	0.116	0.010	0.014	---	---	3
4	---	---	0.040B	0.115B	9.44	4.50	0.697	0.092	0.009	0.013	---	---	4
5	---	---	0.042B	0.103B	8.18	4.58	0.695	0.080	0.009	0.013	---	---	5
6	---	---	0.045B	0.092B	8.38	4.22	0.707	0.068	0.009	0.015	---	---	6
7	---	---	0.045B	0.086B	8.84	3.95	0.645	0.058	0.007	0.016	---	---	7
8	---	---	0.045B	0.068B	9.35	3.85	0.573	0.051	0.007	0.013	---	---	8
9	---	---	0.043B	0.078B	9.79	3.57	0.530	0.038	0.007	0.016	---	---	9
10	---	---	0.043B	0.106B	10.0	3.46	0.455	0.032	0.007	0.020	---	---	10
11	---	---	0.044B	0.130B	9.92	3.20	0.411	0.028	0.007	0.026	---	---	11
12	---	---	0.047B	0.103B	9.72	2.91	0.402	0.029	0.006	0.030	---	---	12
13	---	---	0.051B	0.106B	9.48	2.64	0.502	0.022	0.006	0.032	---	---	13
14	---	---	0.056B	0.130B	9.18	2.40	0.617	0.019	0.005	0.034	---	---	14
15	---	---	0.060B	0.106B	8.85	2.26	0.702	0.018	0.005	0.032	---	---	15
16	---	---	0.063B	0.190B	8.48	2.16	0.804	0.016	0.005	0.035	---	---	16
17	---	---	0.065B	0.228B	7.99	1.93	0.807	0.015	0.004	0.033	---	---	17
18	---	---	0.065B	1.12 B	7.58	1.75	0.724	0.014	0.004	0.031	---	---	18
19	---	---	0.065B	1.35	7.52	1.58	0.636	0.013	0.003	0.033	---	---	19
20	---	0.030B	0.060B	2.04	6.76	1.42	0.565	0.013	0.002	0.032	---	---	20
21	---	0.030B	0.056B	2.69	6.31	1.32	0.495	0.012	0.002	0.030	---	---	21
22	---	0.031B	0.055B	3.66	5.89	1.20	0.452	0.013	0.003	0.027B	---	---	22
23	---	0.032B	0.055B	3.80	5.51	1.11	0.389	0.023	0.003	0.029B	---	---	23
24	---	0.033B	0.056B	4.91	5.19	1.02	0.302	0.021	0.002	0.025B	---	---	24
25	---	0.034B	0.056B	5.82	5.00	0.908	0.201	0.019	0.002	0.030B	---	---	25
26	---	0.036B	0.056B	7.02	5.16	0.824	0.271	0.019	0.002	0.029B	---	---	26
27	---	0.038B	0.058B	7.96	5.22	0.783	0.254	0.018	0.003	0.028B	---	---	27
28	---	0.038B	0.060B	9.63	5.22	0.735	0.220	0.016	0.003	0.027B	---	---	28
29	---	---	0.064B	9.78	5.12	0.692	0.202	0.015	0.003	0.023B	---	---	29
30	---	---	0.067B	9.29	4.94	0.673	0.162	0.012	0.003	0.023B	---	---	30
31	---	---	0.074B		4.86		0.145	0.012		0.025B		---	31
TOTAL	---	---	1.648	70.983	234.48	76.035	15.735	1.204	0.160	0.745	---	---	TOTAL
MEAN	---	---	0.053	2.37	7.56	2.53	0.508	0.039	0.005	0.024	---	---	MEAN
MAX	---	---	0.074	9.78	10.0	5.50	0.807	0.154	0.011	0.035	---	---	MAX
MIN	---	---	0.037	0.068	4.86	0.673	0.145	0.012	0.002	0.003	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.64
MAXIMUM DAILY, 10.0 ON MAY 10
MINIMUM DAILY, 0.002 ON SEP 20
MAXIMUM INSTANTANEOUS,
11.2 AT 18:30 MST ON APR 29

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 35 29 N
LONG 118 29 35 W
DRAINAGE AREA, 819 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 360
FEB	---	AUG	104
MAR	142	SEP	13.8
APR	6 130	OCT	64.4
MAY	20 300	NOV	---
JUN	6 570	DEC	---

TOTAL DISCHARGE, 34 700 dam³

SOUTH FORK MILK RIVER NEAR BABB - STATION NO. 11AA033

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.821B	4.33B	3.79	4.22	1.42	0.963	0.368	0.227	---	---	1
2	---	---	0.850B	4.98	4.59	3.71	1.39	0.850	0.368	0.215	---	---	2
3	---	---	0.850B	5.04	5.88	3.37	1.59	0.793	0.340	0.311	---	---	3
4	---	---	0.991B	5.57	5.40	3.17	1.47	0.736	0.340	0.368	---	---	4
5	---	---	1.08 B	2.55	3.26	3.00	1.47	0.651	0.283	1.56	---	---	5
6	---	---	1.05 B	2.46	3.37	2.78	1.56	0.623	0.266	1.78	---	---	6
7	---	---	1.05 B	2.61	3.62	2.92	1.44	0.510	0.232	1.08	---	---	7
8	---	---	1.13 B	2.94	3.31	3.11	1.36	0.453	0.187	0.793	---	---	8
9	---	---	1.13 B	1.84	3.06	2.75	1.30	0.481	0.181	0.736	---	---	9
10	---	---	0.906B	1.76B	2.80	2.61	1.19	0.510	0.181	0.680	---	---	10
11	---	---	0.850B	1.78B	3.00	2.61	1.16	0.510	0.181	1.02	---	---	11
12	---	---	0.765B	1.87	2.83	2.63	1.08	0.510	0.178	0.906	---	---	12
13	---	---	0.708B	1.95	3.28	2.69	1.05	0.481	0.190	0.878	---	---	13
14	---	---	0.651B	2.44	3.14	2.83	1.02	0.422	0.229	0.736	---	---	14
15	---	---	0.595B	3.48	3.28	2.75	1.02	0.396	0.252	0.623	---	---	15
16	---	---	0.566B	3.85	3.11	2.49	0.991	0.538	0.235	0.623	---	---	16
17	---	---	0.623B	3.06	2.58	2.21	0.850	0.566	0.241	0.651	---	---	17
18	---	---	0.680B	3.62	2.38	2.12	0.850	0.510	0.232	0.595	---	---	18
19	---	---	1.27 B	4.73	2.29	2.07	0.963	0.566	0.232	0.651	---	---	19
20	---	---	1.84 B	5.13	2.32	2.21	1.42	1.19	0.266	0.680	---	---	20
21	---	---	1.27 B	5.72	2.35	2.89	1.44	1.16	0.311	0.566	---	---	21
22	---	---	0.906B	5.98	2.10	2.49	1.19	0.708	0.283	0.538	---	---	22
23	---	---	0.821B	5.13	2.01	2.21	1.05	0.538	0.266	0.566	---	---	23
24	---	---	0.708B	4.73	2.72	2.07	1.05	0.481	0.221	0.538	---	---	24
25	---	---	0.708B	4.33	4.42	1.93	2.63	0.623	0.201	0.538	---	---	25
26	---	---	0.850B	3.79	3.26	1.78	3.06	0.793	0.184	0.538	---	---	26
27	---	---	0.991B	3.51	2.80	1.70	1.84	0.821	0.181	0.651	---	---	27
28	---	---	1.19 B	3.34	2.83	1.61	1.44	0.623	0.201	0.651	---	---	28
29	---	---	1.67	3.28	7.99	1.64	1.36	0.453	0.215	0.595	---	---	29
30	---		2.46	3.31	6.37	1.59	1.19	0.396	0.229	0.595	---	---	30
31	---		3.54		4.76		1.05	0.368		0.566		---	31
TOTAL	---	---	33.520	106.51	104.90	76.16	41.894	19.226	7.274	21.455	---	---	TOTAL
MEAN	---	---	1.08	3.55	3.38	2.54	1.35	0.620	0.243	0.692	---	---	MEAN
MAX	---	---	3.54	5.72	7.99	4.22	3.06	1.19	0.368	1.78	---	---	MAX
MIN	---	---	0.566	1.76	2.01	1.59	0.850	0.368	0.178	0.215	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.68
MAXIMUM DAILY, 7.99 ON MAY 29
MINIMUM DAILY, 0.178 ON SEP 12
MAXIMUM INSTANTANEOUS,
9.09 AT 16:00 MDT ON MAY 29

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 45 14 N
LONG 113 10 00 W
DRAINAGE AREA, 181 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 620
FEB	---	AUG	1 660
MAR	2 900	SEP	628
APR	9 200	OCT	1 850
MAY	9 060	NOV	---
JUN	6 580	DEC	---

TOTAL DISCHARGE, 35 500 dam³

SOUTH HEART RESERVOIR NEAR MCLENNAN - STATION NO. 07BF008

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	3.676	4.026	3.739	3.864	3.693	3.553	3.448	3.412A	---	1
2	---	---	---	3.697	4.023	3.705	3.864	3.686	3.545	3.427	---	---	2
3	---	---	---	3.720	4.029	3.679	3.860	3.674	3.542	3.431	---	---	3
4	---	---	3.650A	3.740	4.031	3.648	3.854	3.672	3.530	3.439	---	---	4
5	---	---	3.648	3.760	4.042	3.614	3.852	3.671	3.543	3.433	---	---	5
6	---	---	3.644	3.777	4.019	3.614	3.854	3.652	3.535	3.428	---	---	6
7	---	---	3.639	3.791	4.040	3.591	3.839	3.638	3.532	3.427	---	---	7
8	---	---	3.635	3.799	4.029	3.582	3.830	3.645	3.525	3.411	---	---	8
9	---	---	3.624	3.806	4.038	3.569	3.813	3.643	3.521	3.416	---	---	9
10	---	---	3.628	3.816	4.052	3.564	3.803	3.637	3.515	3.419	---	---	10
11	---	---	3.621	3.823	4.061	3.591	3.796	3.634	3.519	3.422	---	---	11
12	---	---	3.619	3.826	4.064	3.582	3.776	3.628	3.510	3.411	---	---	12
13	---	---	3.615	3.832	4.065	3.559	3.730	3.627	3.503	3.412	---	---	13
14	---	---	3.612	3.838	4.068	3.592	3.739	3.624	3.506	3.417	---	---	14
15	---	3.726A	3.607	3.845	4.069	3.633	3.750	3.616	3.504	3.418	---	---	15
16	---	---	3.603	3.854	4.069	3.672	3.752	3.615	3.500	3.419	---	---	16
17	---	---	3.600	3.864	4.064	3.707	3.750	3.612	3.494	3.420	---	---	17
18	---	---	3.600	3.871	4.056	3.739	3.743	3.607	3.493	3.416	---	---	18
19	---	---	3.604	3.883	4.044	3.770	3.743	3.605	3.486	3.396	---	---	19
20	---	---	3.606	3.899	4.025	3.803	3.738	3.596	3.488	3.411	---	---	20
21	---	---	3.606	3.915	4.005	3.828	3.738	3.597	3.485	3.412	---	---	21
22	---	---	3.603	3.930	3.999	3.865	3.737	3.578	3.482	3.402	---	---	22
23	---	---	3.602	3.946	3.988	3.870	3.731	3.572	3.471	3.411	---	---	23
24	---	---	3.599	3.958	3.973	3.886	3.731	3.568	3.455	3.396	---	---	24
25	---	---	3.600	3.977	3.955	3.892	3.725	3.571	3.454	3.413	---	---	25
26	---	---	3.594	3.991	3.926	3.903	3.721	3.563	3.461	3.421	---	---	26
27	---	---	3.589	4.005	3.894	3.895	3.719	3.548	3.460	3.429	---	---	27
28	---	---	3.590	4.010	3.861	3.890	3.714	3.538	3.458	3.397	---	---	28
29	---		3.598	4.016	3.827	3.885	3.710	3.538	3.429	3.415	---	---	29
30	---		3.624	4.022	3.795	3.879	3.707	3.554	3.434	3.416	---	---	30
31	---		3.652		3.759		3.696	3.561		3.413		---	31
MEAN	---	---	---	3.863	3.997	3.725	3.770	3.612	3.498	3.418	---	---	MEAN
MAX	---	---	---	4.022	4.069	3.903	3.864	3.693	3.553	3.448	---	---	MAX
MIN	---	---	---	3.676	3.759	3.559	3.696	3.538	3.429	3.396	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 4.069 ON MAY 15

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 40 50 N
LONG 116 35 50 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
2 090 km²

WATER LEVELS ARE REFERRED TO ASSUMED DATUM
APPLY 622.058 m ADJUSTMENT TO CONVERT TO GEODETIC SURVEY OF CANADA DATUM

SOUTH SASKATCHEWAN RIVER AT HIGHWAY NO. 41 - STATION NO. 05AK001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	160 B	86.0B	99.0B	150	207	1 110	511	293	104	28.7	112	25.0B	1
2	130 B	88.0B	118 B	156	205	1 310	477	274	90.3	25.8	113	28.4B	2
3	105 B	80.0B	119 B	150	196	1 310	417	264	81.9	26.4	114	30.0B	3
4	101 B	78.0B	120 B	154	175	1 250	366	238	80.8	29.3	115	34.0B	4
5	104 B	74.0B	118 B	147	160	1 290	364	209	70.5	29.1	117	40.0B	5
6	112 B	69.5B	115 B	145	159	1 340	371	188	66.1	29.9	116 B	56.6B	6
7	114 B	60.0B	116 B	147	160	1 230	356	187	63.3	32.7	116 B	64.0B	7
8	99.8B	55.8B	120 B	158	172	1 090	324	197	53.4	34.9	116 B	71.8B	8
9	98.0B	56.0B	128 B	166A	210	984	306	194	49.6	33.2	123 B	78.0B	9
10	98.0B	60.0B	130 B	166A	267	857	295	171	47.4	33.4	115 B	79.5B	10
11	99.5B	63.0B	128 B	164E	295	737	294	141	48.9	34.0	121 B	81.0B	11
12	99.9B	68.0B	128 B	162A	297	660	291	108	47.5	41.7	124	82.0B	12
13	99.2B	72.0B	136 B	135E	283	649	303	89.3	46.2	50.8	126	82.5B	13
14	97.4B	73.8B	142 B	120E	267	674	265	87.1	43.1	49.6	131	82.4B	14
15	94.8B	75.0B	106 B	135E	254	683	243	93.9	41.8	45.0	126	81.6B	15
16	94.6B	75.9B	128 B	148E	247	661	219	88.6	43.9	62.5	174	80.0B	16
17	94.2B	76.0B	144 B	152E	246	637	207	89.6	37.9	146	175	79.0B	17
18	94.0B	76.5B	153 B	147A	237	592	201	95.3	34.7	118	168	78.0B	18
19	93.8B	76.3B	155 B	147	216	524	200	84.5	36.4	118	171	77.1B	19
20	92.0B	76.0B	138 B	131	201	507	199	87.2	38.9	112	176	72.0B	20
21	89.3B	76.1B	150 B	136	188	506	186	90.5	34.3	126	174 B	60.0B	21
22	88.4B	76.2B	150 B	139	197	515	186	96.2	34.5	134	169 B	50.0B	22
23	87.8B	76.4B	136 B	126	210	520	193	103	34.9	130	172 B	40.0B	23
24	87.0B	78.0B	160 B	139	209	540	198	128	37.3	130	100 B	30.0B	24
25	85.5B	79.0B	165 B	167	216	549	169	108	37.3	130	84.0B	31.7B	25
26	85.0B	84.0B	140 B	190	218	557A	147	112	35.2	122	40.0B	36.0B	26
27	84.8B	90.0B	130 B	206	216	565	142	112	33.3	115	30.0B	42.0B	27
28	85.0B	96.0B	120 B	206	360	580	134	112	33.1	108	25.6B	47.0B	28
29	85.3B		118 B	202	1 100	572	118	118	31.2	105	24.4B	50.0B	29
30	85.0B		125 B	211	1 100	539	204	116	29.3	112	25.0B	51.5B	30
31	85.3B		129 B		978		305	115		109		52.0B	31
TOTAL	3 029.6	2 095.5	4 064.0	4 702	9 446	23 536	8 191	4 420.2	1 464.9	2 400.0	3 448.0	1 793.1	TOTAL
MEAN	97.7	74.8	131	157	305	785	264	143	48.8	77.4	115	57.8	MEAN
MAX	160	96.0	165	211	1 100	1 340	511	293	104	146	176	82.5	MAX
MIN	84.8	55.8	99.0	120	159	506	118	84.5	29.3	25.8	24.4	25.0	MIN

SUMMARY FOR THE MONTHS APR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 253
MAXIMUM DAILY, 1 340 ON JUN 06
MINIMUM DAILY, 25.8 ON OCT 02
MAXIMUM INSTANTANEOUS,
1 360 AT 12:45 MST ON JUN 06

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 44 15 N
LONG 110 05 45 W
DRAINAGE AREA, 66 000 km²
A - MANUAL GAUGE
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	3 029.6	JUL	708 000
FEB	2 095.5	AUG	382 000
MAR	4 064	SEP	127 000
APR	406 000	OCT	207 000
MAY	816 000	NOV	3 448
JUN	2 030 000	DEC	1 793.1

TOTAL DISCHARGE, 4 680 000 dam³

SOUTH SASKATCHEWAN RIVER AT MEDICINE HAT - STATION NO. 05AJ001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	105 B	80.0B	119B	146	201	1 330	470	275	86.4	33.8	120	30.0B	1
2	101 B	78.0B	120B	147	189	1 330	410	262	85.7	35.9	123	34.0B	2
3	104 B	74.0B	118B	144	168	1 260	354	230	76.3	35.3	125	40.0B	3
4	112 B	69.5B	115B	145	157	1 260	355	198	71.6	36.0	122	56.6B	4
5	114 B	60.0B	116B	144	163	1 360	365	179	69.0	38.5	127	64.0B	5
6	99.8B	55.8B	120B	151	165	1 250	349	192	60.4	37.8	125 B	71.8B	6
7	96.0B	56.0B	120B	161	178	1 080	307	195	55.7	37.9	127 B	78.0B	7
8	96.0B	60.0B	130B	165	216	971	291	185	53.0	39.3	130 B	79.5B	8
9	99.5B	63.0B	128B	163	284	839	283	158	53.8	40.4	131 B	81.0B	9
10	99.9B	68.0B	128B	162	303	739	284	125	52.5	47.6	129 B	82.0B	10
11	99.2B	72.0B	136B	157	307	660	290	97.7	50.8	58.1	126 B	82.5B	11
12	97.4B	73.8B	142B	117	279	630	297	89.2	46.4	57.5	139	82.4B	12
13	94.8B	75.0B	106	105	267	662	256	99.0	44.2	51.8	135	81.6B	13
14	94.6B	75.9B	128	135	257	675	232	93.7	48.2	46.2	143	80.0B	14
15	94.2B	76.0B	144	148	247	649	209	93.6	40.1	128	182	79.0B	15
16	94.0B	76.5B	153	151	247	624	197	98.3	37.0	130	170	78.0B	16
17	93.8B	76.3B	155	150	231	578	195	87.8	38.8	123	171	77.1B	17
18	92.0B	76.0B	138	150	212	505	191	87.6	40.4	120	173	72.0B	18
19	89.3B	76.1B	150	136	197	486	193	92.0	38.1	121	176	60.0B	19
20	88.4B	76.2B	150	148	189	486	181	91.2	39.2	135	169	50.0B	20
21	87.8B	76.4B	136	136	199	497	184	120	39.6	135	125 B	40.0B	21
22	87.0B	78.0B	160A	136	205	502	196	126	43.1	132	100 B	30.0B	22
23	85.5B	79.0B	165E	154	205	524	194	111	43.4	134	84.0B	31.7B	23
24	85.0B	84.0B	140E	175	208	529	162	107	41.1	132	40.0B	36.0B	24
25	84.8B	90.0B	130E	193	210	537	146	109	40.1	124	30.0B	42.0B	25
26	85.0B	96.0B	120A	205	217	550	144	111	39.7	119	25.6B	47.0B	26
27	85.3B	99.0B	118	204	334	568	129	114	37.0	115	24.4B	50.0B	27
28	85.0B	118 B	125	201	1 030	563	129	115	34.8	117	25.0B	51.5B	28
29	85.3B		129	210	1 220	535	253	114	33.5	118	25.0B	52.0B	29
30	86.0B		133	201	1 040	507	316	109	31.9	120	28.4B	51.8B	30
31	88.0B		147		1 090		295	94.2		122		51.0B	31
TOTAL	2 913.6	2 138.5	4 127	4 740	10 415	22 686	7 857	4 159.3	1 471.8	2 721.1	3 350.4	1 842.5	TOTAL
MEAN	94.0	76.4	133	158	336	756	253	134	49.1	87.8	112	59.4	MEAN
MAX	114	118	165	210	1 220	1 360	470	275	86.4	135	182	82.5	MAX
MIN	84.8	55.8	106	105	157	486	129	87.6	31.9	33.8	24.4	30.0	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 187
MAXIMUM DAILY, 1 360 ON JUN 05
MINIMUM DAILY, 24.4B ON NOV 27
MAXIMUM INSTANTANEOUS,
1 380 AT 08:25 MST ON JUN 05

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 02 35 N
LONG 110 40 40 W
DRAINAGE AREA, 56 400 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	252 000	JUL	679 000
FEB	185 000	AUG	359 000
MAR	357 000	SEP	127 000
APR	410 000	OCT	235 000
MAY	900 000	NOV	289 000
JUN	1 960 000	DEC	159 000

TOTAL DISCHARGE, 5 910 000 dam³

SOUTH WABASCA LAKE NEAR DESMARAIS - STATION NO. 07JA002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.320E	0.467	0.638	0.947	0.900	0.818	0.660	---	---	1
2	---	---	---	0.320E	0.474	0.640	0.956	0.884	0.809	0.641	---	---	2
3	---	---	---	0.320E	0.482	0.643	0.945	0.891	0.801	0.649	---	---	3
4	---	---	---	0.316A	0.489	0.632	0.959	0.886	0.798	0.647	---	---	4
5	---	---	---	0.320E	0.498	0.625	0.959	0.878	0.799	0.636	---	---	5
6	---	---	---	0.319E	0.498	0.629	0.959	0.864	0.792	0.635	---	---	6
7	---	---	---	0.317E	0.518	0.628	0.961	0.851	0.784	0.634	---	---	7
8	---	---	---	0.315E	0.540	0.621	0.966	0.853	0.781	0.628	---	---	8
9	---	---	---	0.313E	0.549	0.628	0.962	0.850	0.776	0.620	---	---	9
10	---	---	---	0.312E	0.548	0.628	0.966	0.846	0.774	0.604	---	---	10
11	---	---	---	0.310E	0.567	0.639	0.971	0.840	0.770	0.618	---	---	11
12	---	---	---	0.308A	0.575	0.655	0.966	0.838	0.756	0.621	---	---	12
13	---	---	---	0.311E	0.581	0.687	0.940	0.831	0.753	0.606	---	---	13
14	---	---	---	0.314E	0.579	0.761	0.919	0.826	0.750	0.605	---	---	14
15	---	---	---	0.316A	0.586	0.836	0.953	0.819	0.754	0.604	---	---	15
16	---	---	---	0.321	0.581	0.892	0.952	0.830	0.740	0.600	---	---	16
17	---	---	---	0.316	0.590	0.924	0.935	0.830	0.718	0.593	---	---	17
18	---	---	---	0.319	0.591	0.939	0.941	0.823	0.733	0.591	---	---	18
19	---	---	---	0.324	0.590	0.948	0.949	0.816	0.725	0.572	---	---	19
20	---	---	---	0.322	0.596	0.955	0.947	0.808	0.725	0.586	---	---	20
21	---	---	---	0.330	0.600	0.954	0.945	0.804	0.719	0.589	---	---	21
22	---	---	---	0.335	0.602	0.955	0.944	0.834	0.717	0.569	---	---	22
23	---	---	---	0.340	0.605	0.938	0.940	0.828	0.709	0.582	---	---	23
24	---	---	---	0.348	0.620	0.943	0.941	0.846	0.695	0.574	---	---	24
25	---	---	---	0.367	0.634	0.936	0.938	0.847	0.696	0.568	---	---	25
26	---	---	---	0.382	0.632	0.936	0.937	0.843	0.685	0.561	---	---	26
27	---	0.373A	0.318A	0.410	0.640	0.936	0.916	0.835	0.679	0.569	---	---	27
28	---	---	---	0.434	0.648	0.938	0.913	0.830	0.692	0.543	---	---	28
29	---		---	0.451	0.647	0.947	0.918	0.829	0.662	0.552	---	---	29
30	---		---	0.461	0.641	0.944	0.917	0.823	0.656	0.552A	---	---	30
31	---		---		0.642		0.911	0.817		0.552E		---	31
MEAN	---	---	---	0.340	0.575	0.799	0.944	0.842	0.742	0.599	---	---	MEAN
MAX	---	---	---	0.461	0.648	0.955	0.971	0.900	0.818	0.660	---	---	MAX
MIN	---	---	---	0.308	0.467	0.621	0.911	0.804	0.656	0.543	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 0.971 ON JUL 11

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 56 23 N
LONG 113 48 18 W

A - MANUAL GAUGE
E - ESTIMATED

DRAINAGE AREA,
1 600 km²

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

SPRAY POWER DIVERSION AT CANMORE - STATION NO. 05BE007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	6.40	11.4	10.6	7.14	9.37	25.5	29.1	32.3	5.95	7.16	12.7	5.72	1
2	9.88	10.2	10.7	12.0	7.79	12.7	28.3	32.3	5.72	9.57	14.3	5.58	2
3	10.6	7.05	7.25	11.9	0.255	0.368	29.1	30.6	5.69	10.1	16.3	18.1	3
4	10.6	6.99	7.05	11.9	10.6	25.5	30.6	32.5	11.2	10.2	12.2	16.8	4
5	10.8	11.3	11.4	13.1	7.22	25.6	29.4	28.3	11.2	10.7	14.1	17.7	5
6	7.56	10.6	10.5	13.4	6.68	25.8	19.1	28.4	11.4	4.28	13.6	11.3	6
7	7.02	10.4	10.7	9.91	9.97	26.7	27.5	28.3	11.2	0.255	14.1	11.9	7
8	11.2	11.4	10.7	10.8	9.17	27.0	27.8	28.3	4.28	4.22	11.9	6.82	8
9	11.4	11.3	10.6	13.4	8.98	24.0	28.7	28.4	3.34	11.5	14.0	5.90	9
10	8.44	8.41	8.52	13.4	9.97	24.3	24.7	28.4	11.4	7.62	6.00	18.9	10
11	11.4	7.93	7.14	11.1	11.4	22.4	29.0	22.7	10.7	7.62	4.13	14.9	11
12	11.5	11.4	11.3	11.3	2.94	26.2	30.3	14.2	11.1	11.2	12.6	15.5	12
13	8.35	11.4	11.3	9.88	0.255	25.4	29.9	10.5	11.3	3.94	12.9	20.4	13
14	7.93	11.0	11.3	8.50	11.2	25.9	29.2	10.5	11.5	0.255	12.7	18.4	14
15	11.4	11.0	11.4	9.91	8.52	27.0	32.1	15.3	6.00	12.8	12.7	5.58	15
16	11.3	11.4	11.2	10.0	13.1	26.6	34.0	15.7	4.30	13.9	12.7	6.00	16
17	11.3	6.97	7.62	9.94	9.17	26.9	35.3	14.0	11.2	14.5	2.80	16.8	17
18	11.3	6.97	7.25	8.52	10.0	27.0	33.4	5.69	9.26	12.8	3.20	11.3	18
19	11.3	8.44	11.2	8.56	6.34	29.2	34.5	3.60	9.17	14.2	14.4	18.5	19
20	7.82	11.3	11.6	9.68	6.37	31.4	33.9	9.91	9.23	3.43	12.5	11.3	20
21	6.37	11.5	11.3	10.4	7.79	29.8	31.0	9.97	9.17	0.255	14.5	17.4	21
22	11.4	5.75	11.3	10.2	10.3	30.4	32.8	11.4	5.03	12.7	14.5	7.25	22
23	10.9	11.4	4.56	7.02	11.2	30.2	33.2	11.3	5.09	14.2	14.5	7.62	23
24	10.2	8.47	4.50	7.31	11.3	30.7	32.6	11.4	6.16	12.7	12.5	9.43	24
25	10.3	7.14	0.255	6.97	12.7	29.8	32.6	6.60	7.84	14.2	3.28	6.99	25
26	10.5	10.3	11.3	9.88	13.3	26.8	33.0	6.31	7.02	14.2	14.1	6.82	26
27	9.52	11.6	12.0	10.0	12.4	29.2	34.2	11.4	9.29	7.02	14.7	12.7	27
28	7.02	11.3	11.9	7.19	15.8	23.6	30.8	11.8	7.11	6.14	14.5	10.0	28
29	11.4		12.1	0.255	6.03	17.0	32.6	15.9	4.06	14.3	15.2	7.26	29
30	10.7		12.0	10.8	10.1	27.6	31.1	12.7	4.28	10.8	15.3	8.50	30
31	11.1		8.50		23.6		25.0	14.1		12.9		9.80	31
TOTAL	306.11	274.32	299.445	294.525	293.990	758.868	944.4	559.48	237.81	300.665	357.79	360.97	TOTAL
MEAN	9.87	9.80	9.66	9.82	9.48	25.3	30.5	18.0	7.93	9.70	11.9	11.6	MEAN
MAX	11.5	11.6	12.1	13.4	23.6	31.4	35.3	32.5	11.5	18.0	16.3	20.4	MAX
MIN	6.37	5.75	0.255	0.255	0.255	0.368	19.1	3.60	2.83	0.255	2.78	5.58	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 13.7
MAXIMUM DAILY, 35.3 ON JUL 17
MINIMUM DAILY, 0.255 ON MAR 25

TYPE OF GAUGE - POWER PLANT
LOCATION - LAT 51 05 20 N
LONG 115 22 25 W

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	26 400	JUL	81 600
FEB	23 700	AUG	48 300
MAR	25 900	SEP	20 500
APR	25 400	OCT	26 000
MAY	25 400	NOV	30 900
JUN	65 600	DEC	31 200

TOTAL DISCHARGE, 431 000 dam³

DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

REGULATED

SPRAY RESERVOIR AT THREE SISTERS DAM - STATION NO. 05BC006

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 692.49	1 691.13	1 689.81	1 688.18	1 686.86	1 689.06	1 693.52	1 694.55	1 694.31	1 694.21	1 693.60	1 692.51	1
2	1 692.44	1 691.09	1 689.75	1 688.14	1 686.87	1 689.37	1 693.64	1 694.51	1 694.33	1 694.18	1 693.54	1 692.52	2
3	1 692.41	1 691.05	1 689.70	1 688.08	1 686.85	1 689.69	1 693.75	1 694.44	1 694.36	1 694.16	1 693.49	1 692.46	3
4	1 692.36	1 691.02	1 689.67	1 687.99	1 686.83	1 689.86	1 693.85	1 694.38	1 694.35	1 694.17	1 693.43	1 692.38	4
5	1 692.30	1 690.98	1 689.63	1 687.93	1 686.82	1 689.99	1 693.94	1 694.33	1 694.33	1 694.17	1 693.37	1 692.32	5
6	1 692.27	1 690.92	1 689.57	1 687.85	1 686.84	1 690.09	1 694.06	1 694.30	1 694.33	1 694.20	1 693.36	1 692.28	6
7	1 692.27	1 690.87	1 689.51	1 687.77	1 686.85	1 690.16	1 694.22	1 694.26	1 694.30	1 694.24	1 693.28	1 692.23	7
8	1 692.21	1 690.82	1 689.45	1 687.74	1 686.84	1 690.23	1 694.34	1 694.20	1 694.32	1 694.25	1 693.26	1 692.20	8
9	1 692.16	1 690.77	1 689.38	1 687.68	1 686.83	1 690.31	1 694.44	1 694.14	1 694.35	1 694.25	1 693.20	1 692.20	9
10	1 692.11	1 690.73	1 689.35	1 687.62	1 686.82	1 690.44	1 694.51	1 694.09	1 694.34	1 694.20	1 693.15	1 692.13	10
11	1 692.08	1 690.71	1 689.30	1 687.53	1 686.81	1 690.60	1 694.61	1 694.05	1 694.34	1 694.21	1 693.20	1 692.06	11
12	1 692.02	1 690.69	1 689.26	1 687.46	1 686.83	1 690.69	1 694.69	1 694.07	1 694.30	1 694.18	1 693.17	1 692.01	12
13	1 691.98	1 690.60	1 689.20	1 687.39	1 686.90	1 690.76	1 694.77	1 694.07	1 694.29	1 694.19	1 693.17	1 691.91	13
14	1 691.94	1 690.53	1 689.11	1 687.35	1 686.90	1 690.82	1 694.83	1 694.06	1 694.27	1 694.20	1 693.13	1 691.83	14
15	1 691.92	1 690.46	1 689.06	1 687.30	1 686.88	1 690.86	1 694.86	1 694.08	1 694.26	1 694.16	1 693.10	1 691.79	15
16	1 691.87	1 690.41	1 689.00	1 687.25	1 686.87	1 690.94	1 694.86	1 694.10	1 694.30	1 694.12	1 693.05	1 691.79	16
17	1 691.80	1 690.38	1 688.96	1 687.21	1 686.85	1 691.03	1 694.85	1 694.10	1 694.33	1 694.09	1 693.05	1 691.71	17
18	1 691.76	1 690.35	1 688.93	1 687.18	1 686.83	1 691.15	1 694.82	1 694.14	1 694.27	1 694.04	1 693.06	1 691.66	18
19	1 691.71	1 690.32	1 688.88	1 687.19	1 686.84	1 691.28	1 694.79	1 694.19	1 694.24	1 693.98	1 692.99	1 691.58	19
20	1 691.66	1 690.27	1 688.81	1 687.16	1 686.85	1 691.37	1 694.76	1 694.25	1 694.22	1 694.00	1 692.92	1 691.53	20
21	1 691.64	1 690.27	1 688.74	1 687.13	1 686.85	1 691.49	1 694.74	1 694.25	1 694.21	1 694.00	1 692.89	1 691.45	21
22	1 691.59	1 690.21	1 688.67	1 687.08	1 686.85	1 691.62	1 694.73	1 694.27	1 694.22	1 693.97	1 692.84	1 691.41	22
23	1 691.54	1 690.11	1 688.65	1 687.04	1 686.86	1 691.87	1 694.69	1 694.27	1 694.26	1 693.93	1 692.80	1 691.38	23
24	1 691.49	1 690.07	1 688.61	1 686.99	1 686.90	1 692.11	1 694.65	1 694.28	1 694.23	1 693.87	1 692.81	1 691.36	24
25	1 691.45	1 690.03	1 688.63	1 686.96	1 687.15	1 692.38	1 694.65	1 694.31	1 694.24	1 693.82	1 692.82	1 691.32	25
26	1 691.40	1 689.98	1 688.57	1 686.93	1 687.44	1 692.60	1 694.66	1 694.34	1 694.22	1 693.77	1 692.77	1 691.31	26
27	1 691.35	1 689.92	1 688.50	1 686.91	1 687.67	1 692.82	1 694.65	1 694.36	1 694.23	1 693.79	1 692.72	1 691.44	27
28	1 691.33	1 689.85	1 688.41	1 686.88	1 687.86	1 693.00	1 694.62	1 694.36	1 694.21	1 693.76	1 692.68	1 691.19	28
29	1 691.28		1 688.34	1 686.92	1 688.13	1 693.19	1 694.61	1 694.33	1 694.21	1 693.76	1 692.61	1 691.17	29
30	1 691.24		1 688.26	1 686.89	1 688.49	1 693.35	1 694.58	1 694.30	1 694.21	1 693.67	1 692.55	1 691.14	30
31	1 691.18		1 688.22		1 688.75		1 694.59	1 694.29		1 693.64		1 691.10	31
MEAN	1 691.85	1 690.52	1 689.03	1 687.39	1 687.09	1 691.11	1 694.49	1 694.25	1 694.28	1 694.04	1 693.07	1 691.78	MEAN
MAX	1 692.49	1 691.13	1 689.81	1 688.18	1 688.75	1 693.35	1 694.86	1 694.55	1 694.36	1 694.25	1 693.60	1 692.52	MAX
MIN	1 691.18	1 689.85	1 688.22	1 686.88	1 686.81	1 689.06	1 693.52	1 694.05	1 694.21	1 693.64	1 692.55	1 691.10	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 1 691.58
MAXIMUM DAILY, 1 694.86 ON JUL 15
MINIMUM DAILY, 1 686.81 ON MAY 11

TYPE OF GAUGE - MANUAL
LOCATION - LAT 50 59 00 N
LONG 115 22 00 W

DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SPRAY RIVER AT BANFF - STATION NO. 05BC001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.86B	1.34B	1.94B	1.76B	2.23	16.8	12.0	5.92	3.30	2.59	2.85B	1.90B	1
2	1.86B	1.20B	1.95B	1.80B	2.24	17.5	11.3	5.72	3.27	2.61	2.70B	1.50B	2
3	1.90B	1.23B	1.96B	1.77B	2.17	16.7	11.1	5.44	3.24	2.57	2.50B	1.87B	3
4	1.74B	1.40B	1.96B	1.74B	2.53	16.2	10.5	5.18	3.18	2.80	2.70B	1.75B	4
5	1.76B	1.34B	1.89B	1.75B	2.70	14.2	10.2	5.03	3.10	3.15	2.60B	1.60B	5
6	1.80B	1.29B	1.85B	1.76B	3.42	12.9	10.9	4.92	3.04	2.86	2.40B	1.80B	6
7	1.82B	1.54B	1.84B	1.73B	3.00	11.7	11.1	4.66	3.00	2.70	2.50B	1.90B	7
8	1.82B	1.50B	1.84B	1.70B	2.91	11.1	10.8	4.56	2.97	2.68	2.60B	1.75B	8
9	1.78B	1.17B	1.93B	1.67B	2.80	10.6	10.4	4.18	2.93	2.68	2.70B	1.60B	9
10	1.73B	1.18B	1.82B	1.64B	2.75	12.1	10.0	3.77	2.91	2.66	2.80B	1.50B	10
11	1.66B	1.22B	1.80B	1.61B	2.72	12.8	9.69	3.69	2.89	2.64	2.90B	1.40B	11
12	1.58B	1.25B	1.76B	1.64B	2.73	11.4	9.53	3.73	2.90	2.60	3.00B	1.30B	12
13	1.52B	1.26B	1.72B	1.69B	2.75	10.4	9.30	3.66	2.98	2.59	2.80B	1.35B	13
14	1.54B	1.25B	1.67B	1.70B	2.95	10.0	8.98	3.58	2.86	2.56	2.61B	1.42B	14
15	1.56B	1.20B	1.61B	1.88B	2.90	10.1	8.49	3.55	2.82	2.53	2.73B	1.48B	15
16	1.59B	1.10B	1.61B	1.98B	2.86	10.4	8.13	3.58	2.82	2.57	2.80B	1.52B	16
17	1.56B	1.11B	1.61B	2.12B	2.85	11.5	7.70	3.60	2.78	2.51	2.65B	1.60B	17
18	1.50B	1.13B	1.60B	2.23B	2.92	12.2	7.39	3.74	2.73	2.65	2.55B	1.48B	18
19	1.46B	1.10B	1.58B	2.38B	2.95	11.8	7.10	3.64	2.73	2.47	2.45B	1.38B	19
20	1.47B	1.08B	1.55B	2.45B	2.98	12.0	6.89	3.59	2.71	2.38	2.35B	1.30B	20
21	1.48B	1.14B	1.53B	2.40B	3.11	12.4	6.36	3.76	2.71	2.44	2.30B	1.20B	21
22	1.51B	1.36B	1.50B	2.35B	3.16	13.1	6.00	4.19	2.69	2.62	2.45B	1.40B	22
23	1.53B	1.50B	1.46B	2.28B	3.60	14.4	5.83	4.43	2.67	2.40	2.70B	1.55B	23
24	1.59B	1.70B	1.40B	2.23B	5.09	14.9	5.93	4.23	2.65	2.40	2.35B	1.68B	24
25	1.58B	2.08B	1.53B	2.19A	13.2	14.8	7.76	3.70	2.64	2.41	2.10B	1.78B	25
26	1.56B	2.12B	1.62B	2.33	14.4	14.4	7.99	3.65	2.61	2.51	1.70B	1.85B	26
27	1.54B	2.14B	1.76B	2.32	11.8	13.9	7.20	3.52	2.61	2.46	1.85B	1.92B	27
28	1.54B	2.05B	1.72B	2.27	11.0	12.9	7.42	3.43	2.63	2.47	2.10B	1.60B	28
29	1.54B		1.75B	2.21	12.5	12.2	6.59	3.42	2.60	2.46	2.54B	1.20B	29
30	1.52B		1.78B	2.19	14.8	12.2	6.13	3.41	2.59	2.04A	2.30B	1.35B	30
31	1.48B		1.80B		14.0		6.14	3.33		2.95B		1.60B	31
TOTAL	50.28	38.28	53.24	59.85	161.70	388.3	264.70	125.49	85.56	80.96	75.60	48.53	TOTAL
MEAN	1.62	1.37	1.72	2.00	5.22	12.9	8.54	4.05	2.85	2.61	2.52	1.57	MEAN
MAX	1.86	2.14	1.96	2.45	14.8	17.5	12.0	5.92	3.30	3.15	3.00	1.92	MAX
MIN	1.46	1.08	1.40	1.61	2.17	10.0	5.85	3.33	2.59	2.38	1.70	1.20	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.92
MAXIMUM DAILY, 17.5 ON JUN 02
MINIMUM DAILY, 1.08B ON FEB 20
MAXIMUM INSTANTANEOUS,
19.1 AT 13:25 MST ON JUN 01

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 09 17 N
LONG 115 33 18 W
DRAINAGE AREA, 749 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED SINCE 1949

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	4 340	JUL	22 900
FEB	3 310	AUG	10 800
MAR	4 600	SEP	7 390
APR	5 170	OCT	6 990
MAY	14 000	NOV	6 530
JUN	33 500	DEC	4 190

TOTAL DISCHARGE, 124 000 dam³

SQUAW COULEE DIVERSION BELOW SQUAW COULEE DAM - STATION NO. 05AC917

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0	0.547	1.26	1.25	0.589	0.249	---	---	1
2	---	---	---	---	0	0.536	1.26	1.06	0.593	0.248	---	---	2
3	---	---	---	---	0	0.525	1.27	0.728	0.587	0.248	---	---	3
4	---	---	---	---	0.539	0.509	1.23	0.551	0.585	0.249	---	---	4
5	---	---	---	---	0.513	0.497	1.18	0.432	0.585	0.250	---	---	5
6	---	---	---	---	0.515	0.500	1.21	0.484	0.551	0.251	---	---	6
7	---	---	---	---	0.519	0.513	1.26	0.538	0.490	0.252	---	---	7
8	---	---	---	---	0.253	0.527	1.36	0.678	0.486	0.252	---	---	8
9	---	---	---	---	0.247	0.531	1.42	0.836	0.481	0.249	---	---	9
10	---	---	---	---	0.530	0.531	1.40	0.764	0.481	0.245	---	---	10
11	---	---	---	---	0.532	0.529	1.27	0.557	0.481	0.242	---	---	11
12	---	---	---	---	0.519	0.562	1.26	0.353	0.479	0.243	---	---	12
13	---	---	---	---	0.518	0.599	1.26	0.333	0.476	0.248	---	---	13
14	---	---	---	---	0.543	0.596	1.26	0.334	0.208	0.245	---	---	14
15	---	---	---	---	0.593	0.592	1.26	0.336	0.159	0.166A	---	---	15
16	---	---	---	---	0.600	0.587	1.45	0.339	0.188	0	---	---	16
17	---	---	---	---	0.599	0.582	1.60	0.403	0.208	0	---	---	17
18	---	---	---	---	0.598	0.578	1.61	0.499	0.228	0	---	---	18
19	---	---	---	---	0.599	0.576	1.61	0.659	0.260	0	---	---	19
20	---	---	---	---	0.603	0.574	1.61	0.747	0.303	0	---	---	20
21	---	---	---	---	0.602	0.573	1.61	0.722	0.320	0	---	---	21
22	---	---	---	---	0.605	0.698	1.60	0.616	0.319	0	---	---	22
23	---	---	---	---	0.609	0.859	1.60	0.548	0.312	0	---	---	23
24	---	---	---	---	0.614	0.906	1.59	0.490	0.310	0	---	---	24
25	---	---	---	---	0.620	1.02	1.60	0.480	0.309	0	---	---	25
26	---	---	---	---	0.624	1.11	1.60	0.485	0.494	0	---	---	26
27	---	---	---	---	0.627	1.03	1.62	0.488	0.499	0	---	---	27
28	---	---	---	---	0.631	1.01	1.66	0.486	0.285	0	---	---	28
29	---	---	---	---	0.635	1.07	1.66	0.506	0.207	0	---	---	29
30	---		---	---	0.699	1.22	1.50	0.569	0.213	0	---	---	30
31	---		---		0.717		1.25	0.587		0		---	31
TOTAL	---	---	---	---	16.347	20.487	44.34	17.857	11.804	3.637	---	---	TOTAL
MEAN	---	---	---	---	0.527	0.683	1.43	0.576	0.394	0.117	---	---	MEAN
MAX	---	---	---	---	0.717	1.22	1.66	1.25	0.597	0.252	---	---	MAX
MIN	---	---	---	---	0	0.497	1.18	0.333	0.159	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 1.66 ON JUL 28
MINIMUM DAILY, 0 ON MAY 01
MAXIMUM INSTANTANEOUS,
1.68 AT 14:40 MST ON JUL 16

SUMMARY FOR THE MONTHS APR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 31 35 N
LONG 113 55 32 W

A - MANUAL GAUGE

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 830
FEB	---	AUG	1 540
MAR	---	SEP	1 020
APR	---	OCT	314
MAY	1 410	NOV	---
JUN	1 770	DEC	---

ST. MARY CANAL AT ST. MARY CROSSING - STATION NO. 05AE029

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0	0	17.3	5.75	18.3	17.5	17.0	17.0	---	---	1
2	---	---	0	0.016	17.5	1.32	18.8	17.4	17.0	16.9	---	---	2
3	---	---	0	1.02	17.4	1.09	18.8	17.4	16.9	16.9	---	---	3
4	---	---	0	1.05	17.3	1.06	18.9	17.3	17.0	17.2	---	---	4
5	---	---	0	1.09	17.3	2.62	18.9	17.3	17.3	17.2	---	---	5
6	---	---	0	1.89	17.5	6.87	18.9	17.3	17.3	17.4	---	---	6
7	---	---	0	1.97	17.5	9.93	18.8	17.3	17.3	17.3	---	---	7
8	---	---	0	1.97	17.7	11.5	18.7	17.3	17.2	16.8	---	---	8
9	---	---	0	1.95	17.8	14.7	18.6	17.2	17.2	14.4	---	---	9
10	---	---	0	1.93	17.7	14.8	18.7	17.3	17.2	9.31	---	---	10
11	---	---	0	1.95	17.6	15.0	18.6	17.2	17.1	5.36	---	---	11
12	---	---	0	2.00	17.5	15.5	18.6	17.1	17.1	2.72	---	---	12
13	---	---	0	2.02	17.4	16.9	18.7	17.1	17.0	0.384	---	---	13
14	---	---	0	1.99	17.3	17.4	18.8	17.1	17.0	0.267	---	---	14
15	---	---	0	2.01	17.3	17.6	18.9	17.1	17.0	0.093	---	---	15
16	---	---	0	2.06	17.1	17.9	18.9	17.1	17.0	0	---	---	16
17	---	---	0	2.05	17.0	17.8	18.8	17.1	17.0	0	---	---	17
18	---	---	0	2.07	17.0	17.8	18.7	17.1	17.0	0	---	---	18
19	---	---	0	2.03	17.0	18.1	18.6	17.1	16.9	0	---	---	19
20	---	---	0	5.51	16.9	18.4	18.5	17.1	17.0	0	---	---	20
21	---	---	0	9.47	17.0	18.6	18.4	17.1	16.9	0	---	---	21
22	---	---	0	13.1	17.0	18.7	18.2	17.1	16.9	0	---	---	22
23	---	---	0	15.1	17.0	18.8	18.1	17.1	16.9	0	---	---	23
24	---	---	0	17.2	17.2	18.9	18.0	17.1	16.9	0	---	---	24
25	---	---	0	17.5	17.6	18.9	18.2	17.1	16.9	0	---	---	25
26	---	0A	0	17.6	17.8	18.9	18.2	17.1	16.9	0	---	---	26
27	---	0	0	17.6	17.9	18.6	18.3	17.0	17.0	0	---	---	27
28	---	0	0	17.5	17.9	18.5	18.4	17.1	16.9	0	---	---	28
29	---		0	17.3	18.4	18.4	18.3	17.1	16.9	0	---	---	29
30	---		0	17.1	18.3	18.2	18.3	17.1	16.9	0	---	---	30
31	---		0		16.0		18.1	17.0		0		---	31
TOTAL	---	---	0	196.946	539.2	430.24	575.0	532.3	510.6	169.234	---	---	TOTAL
MEAN	---	---	0	6.56	17.4	14.3	18.5	17.2	17.0	5.46	---	---	MEAN
MAX	---	---	0	17.6	18.4	18.9	18.9	17.5	17.1	17.4	---	---	MAX
MIN	---	---	0	0	16.0	1.06	18.0	17.0	16.9	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE MONTHS MAR TO OCT

MEAN, 12.1
MAXIMUM DAILY, 18.9 ON JUN 24
MINIMUM DAILY, 0 ON MAR 01

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 56 50 N
LONG 113 22 28 W

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	49 700
FEB	---	AUG	46 000
MAR	0	SEP	44 100
APR	17 000	OCT	14 600
MAY	46 600	NOV	---
JUN	37 200	DEC	---

TOTAL DISCHARGE, 255 000 dam³

ST. MARY RESERVOIR NEAR SPRING COULEE - STATION NO. 05AE025

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 100.445	1 100.361A1	100.596 1	100.627 1	101.394 1	101.501 1	102.768 1	102.689 1	101.553 1	098.072 1	099.870 1	100.579	1
2	1 100.437	--- 1	100.606 1	100.646 1	101.393 1	101.489 1	102.824 1	102.669 1	101.475 1	097.909 1	099.905 1	100.598	2
3	1 100.418	--- 1	100.604 1	100.664 1	101.413 1	101.489 1	102.897 1	102.649 1	101.374 1	097.754 1	099.949 1	100.608	3
4	1 100.399	--- 1	100.602 1	100.680 1	101.424 1	101.481 1	102.947 1	102.648 1	101.286 1	097.711 1	099.993 1	100.610	4
5	1 100.379	--- 1	100.600 1	100.697 1	101.428 1	101.453 1	103.054 1	102.644 1	101.209 1	097.677 1	100.044 1	100.610	5
6	1 100.360	--- 1	100.596 1	100.710 1	101.427 1	101.427 1	103.157 1	102.633 1	101.124 1	097.747 1	100.095 1	100.602	6
7	1 100.345	--- 1	100.592 1	100.723 1	101.403 1	101.400 1	103.196 1	102.603 1	101.058 1	097.881 1	100.147 1	100.601	7
8	1 100.332	--- 1	100.588 1	100.740 1	101.401 1	101.364 1	103.248 1	102.571 1	100.964 1	098.033 1	100.188 1	100.599	8
9	1 100.323	--- 1	100.581 1	100.760 1	101.407 1	101.396 1	103.265 1	102.540 1	100.878 1	098.184 1	100.239 1	100.595	9
10	1 100.323	--- 1	100.577 1	100.784 1	101.418 1	101.431 1	103.261 1	102.510 1	100.803 1	098.326 1	100.279 1	100.590	10
11	1 100.324	--- 1	100.575 1	100.802 1	101.420 1	101.466 1	103.265 1	102.470 1	100.692 1	098.524 1	100.327 1	100.584	11
12	1 100.313 1	100.463A1	100.574 1	100.835 1	101.407 1	101.470 1	103.272 1	102.428 1	100.576 1	098.726 1	100.385 1	100.578	12
13	1 100.305 1	100.465 1	100.572 1	100.872 1	101.389 1	101.489 1	103.274 1	102.380 1	100.435 1	098.890 1	100.454 1	100.561	13
14	1 100.303 1	100.463 1	100.558 1	100.899 1	101.361 1	101.551 1	103.265 1	102.332 1	100.301 1	099.026 1	100.484 1	100.547	14
15	1 100.302 1	100.467 1	100.550 1	100.928 1	101.325 1	101.614 1	103.272 1	102.278 1	100.165 1	099.139 1	100.515 1	100.536	15
16	1 100.300 1	100.474 1	100.541 1	100.963 1	101.277 1	101.663 1	103.283 1	102.225 1	100.025 1	099.253 1	100.524 1	100.529	16
17	1 100.304 1	100.478 1	100.538 1	101.000 1	101.233 1	101.693 1	103.274 1	102.172 1	099.858 1	099.332 1	100.535 1	100.520	17
18	1 100.305 1	100.478 1	100.535 1	101.039 1	101.178 1	101.714 1	103.249 1	102.110 1	099.712 1	099.396 1	100.543 1	100.507	18
19	1 100.314 1	100.483 1	100.530 1	101.076 1	101.131 1	101.753 1	103.199 1	102.054 1	099.579 1	099.446 1	100.545 1	100.483	19
20	1 100.325 1	100.484 1	100.538 1	101.116 1	101.081 1	101.816 1	103.157 1	102.026 1	099.452 1	099.493 1	100.545 1	100.478	20
21	1 100.335 1	100.484 1	100.561 1	101.148 1	101.043 1	101.902 1	103.122 1	102.001 1	099.328 1	099.546 1	100.541 1	100.472	21
22	1 100.349 1	100.491 1	100.578 1	101.185 1	100.984 1	102.003 1	103.079 1	101.964 1	099.213 1	099.581 1	100.539 1	100.474	22
23	1 100.355 1	100.501 1	100.579 1	101.229 1	100.944 1	102.095 1	103.024 1	101.915 1	099.109 1	099.612 1	100.543 1	100.482	23
24	1 100.362 1	100.512 1	100.577 1	101.282 1	100.903 1	102.175 1	102.944 1	101.842 1	098.981 1	099.650 1	100.518 1	100.487	24
25	1 100.362 1	100.532 1	100.575 1	101.328 1	100.937 1	102.263 1	102.870 1	101.811 1	098.845 1	099.688 1	100.517 1	100.494	25
26	1 100.370 1	100.553 1	100.577 1	101.382 1	100.976 1	102.316 1	102.837 1	101.793 1	098.696 1	099.718 1	100.494 1	100.498	26
27	1 100.373 1	100.571 1	100.580 1	101.410 1	101.042 1	102.372 1	102.800 1	101.788 1	098.564 1	099.737 1	100.478 1	100.500	27
28	1 100.371 1	100.585 1	100.583 1	101.441 1	101.107 1	102.448 1	102.786 1	101.770 1	098.448 1	099.775 1	100.497 1	100.501	28
29	1 100.371	1	100.591 1	101.438 1	101.247 1	102.541 1	102.761 1	101.740 1	098.339 1	099.794 1	100.529 1	100.501	29
30	1 100.370	1	100.602 1	101.415 1	101.422 1	102.668 1	102.732 1	101.702 1	098.191 1	099.817 1	100.558 1	100.496	30
31	1 100.364	1	100.614		101.470		102.702 1	101.631		099.838		100.504	31
MEAN	1 100.350	--- 1	100.576 1	100.994 1	101.258 1	101.782 1	103.058 1	102.213 1	100.008 1	098.945 1	100.359 1	100.540	MEAN
MAX	1 100.445	--- 1	100.614 1	101.441 1	101.470 1	102.668 1	103.283 1	102.689 1	101.553 1	099.838 1	100.558 1	100.610	MAX
MIN	1 100.300	--- 1	100.530 1	100.627 1	100.903 1	101.364 1	102.702 1	101.631 1	098.191 1	097.677 1	099.870 1	100.472	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MAXIMUM DAILY, 1 103.283 ON JUL 16
MINIMUM DAILY, 1 097.677 ON OCT 05
MAXIMUM INSTANTANEOUS,
1 103.305 AT 17:19 MST ON JUL 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 21 46 N
LONG 113 06 58 W

A - MANUAL GAUGE
E - ESTIMATED

REGULATED

DRAINAGE AREA,
2 290 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

ST. MARY RIVER AT INTERNATIONAL BOUNDARY - STATION NO. 05AE027

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	6.37	7.93B	4.81B	10.4	27.8	82.1	63.4	24.4	12.3	3.79	12.8	13.4	1
2	5.52	7.65B	4.81B	11.9	31.1	81.3	60.0	23.1	11.7	4.56	14.8	12.7	2
3	5.10	7.36B	4.81B	15.6	30.0	75.9	62.0	21.9	11.5	4.28	16.5	12.7	3
4	4.81	6.80B	4.53B	12.4	28.6	70.2	66.0	20.8	11.1	5.13	17.7	11.9	4
5	4.47	6.51B	4.53B	12.2	28.1	62.0	66.3	19.5	10.4	10.7	17.6	11.2	5
6	4.64	6.23B	4.96	12.3	32.0	53.2	63.1	19.1	10.0	20.7	17.3	10.9	6
7	4.50	5.95B	5.10	13.3	39.4	47.0	59.5	18.5	9.80	23.2	17.7	10.7	7
8	4.36	5.95B	5.32	14.4	41.1	42.5	55.8	17.9	8.98	24.4	16.9	10.3	8
9	4.47	5.66B	4.98	14.4	41.6	40.2	47.0	17.4	8.58	27.2	16.2	9.57	9
10	5.35	5.66B	5.10	14.7	39.1	41.1	39.4	16.9	8.21	31.1	17.1	9.12	10
11	4.93	5.95B	5.10	15.2	34.8	46.7	36.0	16.3	7.84	27.8	18.4	8.50	11
12	5.47	6.23B	4.93	16.0	30.9	50.7	37.1	15.7	7.53	25.6	20.8	7.96	12
13	6.03	5.95B	5.18	16.4	28.6	52.7	39.6	15.0	7.11	24.1	23.6	7.65	13
14	6.57	5.95B	5.18	16.6	26.6	51.0	41.9	14.4	6.82	21.8	23.6	7.36	14
15	7.73	5.95B	5.30	17.6	25.3	45.9	42.5	13.8	6.57	20.0	23.6	7.84	15
16	8.61	5.66B	5.47	18.6	22.6	41.1	40.5	14.8	6.80	18.3	23.3	7.42	16
17	9.66	5.66B	5.66	18.9	20.0	38.5	37.1	14.8	6.80	17.4	22.1	6.80	17
18	10.1	5.66B	5.86	19.6	18.8	38.5	32.3	14.8	6.65	16.3	21.2	4.63B	18
19	10.3	5.66B	7.02	20.4	18.5	40.8	28.1	14.5	6.20	15.6	19.8	3.40B	19
20	10.3	5.38B	8.27	21.9	18.5	48.1	25.9	15.6	6.23	14.5	18.4	3.11B	20
21	9.60	5.38B	8.18	23.8	18.5	57.8	22.9	15.1	5.86	13.8	17.0	2.83B	21
22	8.72	5.38B	7.25	27.2	18.7	66.0	20.1	14.8	5.58	13.1	16.5	3.11B	22
23	8.72	5.38B	7.45	31.4	19.5	70.5	17.7	14.4	5.55	12.3	16.3	3.11B	23
24	8.52	5.24B	7.11	34.8	25.7	75.6	16.4	14.3	5.27	11.4	16.7	2.83B	24
25	8.92	5.10B	7.11	38.2	39.9	79.3	20.4	14.3	5.01	11.0	17.1	2.55B	25
26	8.01	5.10B	7.31	39.1	45.0	82.7	24.9	14.1	4.70	10.9	17.2	2.41B	26
27	7.70	5.10B	7.53	36.2	46.2	85.5	26.8	13.7	4.36	10.4	16.5	2.27B	27
28	7.84	4.81B	7.65	31.4	45.3	85.0	27.5	13.4	4.16	10.5	15.5	2.12B	28
29	7.28		7.87	27.5	61.4	79.0	27.6	13.2	3.99	10.5	15.0	1.98B	29
30	7.31		8.52	24.2	68.8	70.8	25.9	13.0	3.71	10.8	14.0	1.98B	30
31	7.56		9.34		72.5		24.8	12.5		11.4		1.98B	31
TOTAL	219.47	165.24	192.24	623.6	1 044.9	1 801.7	1 196.5	502.0	219.31	482.56	541.2	203.63	TOTAL
MEAN	7.08	5.90	6.20	20.8	33.7	60.1	38.6	16.2	7.31	15.6	18.0	6.57	MEAN
MAX	10.3	7.93	9.34	39.1	72.5	85.5	66.3	24.4	12.3	31.1	23.6	13.4	MAX
MIN	4.36	4.81	4.53	10.4	18.5	38.5	16.4	12.5	3.71	3.79	12.8	1.98	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 19.7
MAXIMUM DAILY, 85.5 ON JUN 27
MINIMUM DAILY, 1.98B ON DEC 29
MAXIMUM INSTANTANEOUS,
86.4 AT 15:15 MDT ON JUN 27

SUMMARY FOR THE YEAR 1990

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 00 12 N
LONG 113 18 48 W
DRAINAGE AREA, 1 210 km²

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	19 000	JUL	103 000
FEB	14 300	AUG	43 400
MAR	16 600	SEP	18 900
APR	53 900	OCT	41 700
MAY	90 300	NOV	46 800
JUN	156 000	DEC	17 600

TOTAL DISCHARGE, 622 000 dam³

ST. MARY RIVER NEAR LETHBRIDGE - STATION NO. 05AE006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	11.8 B	3.00B	6.30B	10.9	26.9	72.3	5.32	3.98	5.17	2.89	2.06	3.50B	1
2	12.0 B	3.20B	6.48B	10.8	27.4	87.2	5.35	3.90	5.34	2.93	2.03	3.40B	2
3	12.0 B	3.60B	8.51B	10.6	26.8	86.7	6.00	4.57	5.34	2.70	1.90B	3.40B	3
4	12.0 B	4.00B	12.4 B	11.6	26.2	84.7	5.72	4.47	5.31	2.84	1.85B	4.88B	4
5	12.0 B	4.30B	12.4 B	11.7	26.0	68.6	5.34	4.34	4.79	2.74	1.80B	5.62B	5
6	12.0 B	4.50B	13.2 B	11.5	25.6	66.5	5.76	4.35	3.27	2.83	1.70B	5.82B	6
7	12.0 B	4.60B	23.4 B	11.4	25.5	63.0	12.9	3.71	3.19	2.82	1.70B	5.80B	7
8	12.0 B	4.60B	20.0 B	11.7	25.5	55.2	17.3	3.38	3.14	2.82	2.00B	5.60B	8
9	12.0 B	4.70B	9.22B	11.9	25.4	52.6	32.5	3.70	3.28	2.75	2.50B	5.20B	9
10	12.0 B	4.70B	11.0 B	11.4B	25.5	21.8	26.6	3.77	3.29	2.44	3.00B	4.50B	10
11	12.0 B	4.80B	10.3 B	11.3	25.5	21.5	8.23	3.88	3.17	2.52	3.40B	4.10B	11
12	9.00B	4.80B	10.7 B	11.6	26.1	21.6	4.07	3.94	3.44	2.49	3.38	3.90B	12
13	7.72B	4.90B	10.8 B	11.8	26.0	21.3	3.83	3.82	3.59	2.31	3.18	3.70B	13
14	4.73B	4.80B	11.2 B	11.5	25.9	23.0	3.85	3.83	3.68	2.36	5.77	3.60B	14
15	4.60B	4.80B	10.9	11.4	25.9	22.4	4.07	3.71	3.25	2.34	12.5	3.50B	15
16	4.50B	4.68B	10.9	11.5	25.9	22.4	4.42	3.72	3.35	2.33	16.9	3.40B	16
17	4.40B	4.70B	11.1	11.3	19.1	22.6	4.22	4.33	3.28	2.30	18.1	3.35B	17
18	4.30B	4.80B	11.1	11.2	12.3	22.6	4.00	4.47	3.03	2.31	18.3	3.30B	18
19	4.20B	4.80B	11.1	11.1	11.9	17.9	4.21	4.24	3.16	2.89	18.2	3.20B	19
20	4.10B	4.90B	11.0	11.0	11.5	16.0	4.83	4.14	3.03	3.02	18.2	3.15B	20
21	4.00B	5.20B	11.2 B	11.0	11.4	16.3	5.07	4.01	3.15	3.12	18.1 B	3.08B	21
22	4.00B	5.40B	11.2 B	11.0	11.1	16.5	5.01	3.56	3.09	3.11	18.3 B	2.98B	22
23	4.00B	5.60B	11.2 B	10.9	11.1	16.4	4.67	3.95	3.10	2.98	16.9 B	2.94B	23
24	4.00B	5.80B	11.0 B	10.8	12.2	16.0	4.41	4.01	3.05	3.01	15.0 B	2.89B	24
25	4.00B	5.90B	11.1 B	10.6	14.7	16.2	4.51	3.76	2.89	2.95	13.0 B	2.85B	25
26	4.00B	6.00B	10.9	10.9	13.3	15.9	5.51	3.80	2.71	2.94	11.5 B	2.81B	26
27	3.75B	6.10B	10.7	24.2	12.8	15.9	4.66	3.98	2.74	2.82	10.0 B	2.79B	27
28	3.30B	6.20B	10.6	27.9	12.8	16.0	4.26	3.61	2.72	3.06	8.98B	2.77B	28
29	3.00B		10.6	27.3	14.7	16.0	4.26	3.28	2.84	2.98	4.99B	2.74B	29
30	2.98B		10.8	26.6	31.4	9.62	4.08	3.26	2.74	2.37	3.74B	2.72B	30
31	3.00B		10.9		67.0		4.04	2.97		2.09		2.70B	31
TOTAL	219.38	135.38	352.21	398.4	683.4	996.72	219.00	120.44	104.13	83.96	258.98	114.19	TOTAL
MEAN	7.08	4.84	11.4	13.3	22.0	33.2	7.06	3.89	3.47	2.71	8.63	3.68	MEAN
MAX	12.0	6.20	23.4	27.9	67.0	87.2	32.5	4.57	5.34	3.12	18.3	5.62	MAX
MIN	2.98	3.00	6.30	10.6	11.1	9.62	3.83	2.97	2.71	2.09	1.70	2.70	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 10.1
MAXIMUM DAILY, 87.2 ON JUN 02
MINIMUM DAILY, 1.70B ON NOV 06
MAXIMUM INSTANTANEOUS,
88.6 AT 22:00 MST ON JUN 01

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 34 24 N
LONG 112 50 38 W
DRAINAGE AREA, 3 530 km²

B - ICE CONDITIONS

REGULATED SINCE 1911

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	19 000	JUL	18 900
FEB	11 700	AUG	10 400
MAR	30 400	SEP	9 000
APR	34 400	OCT	7 250
MAY	59 000	NOV	22 400
JUN	86 100	DEC	9 870

TOTAL DISCHARGE, 318 000 dam³

STEELE LAKE NEAR JARVIE - STATION NO. 07BC005

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	---	656.693	---	656.665	---	---	---	1
2	---	---	---	---	656.797	656.747	---	---	656.670	656.641	---	---	2
3	---	---	---	---	---	---	656.693	656.749	---	---	---	---	3
4	---	---	---	---	656.797	656.757	---	656.739	656.670	---	---	---	4
5	---	---	---	---	---	---	656.808	---	---	656.631	---	---	5
6	---	---	---	---	656.817	656.747	---	---	656.671	---	---	---	6
7	---	---	---	---	---	---	---	656.714	---	---	---	---	7
8	---	---	---	---	656.827	656.747	---	---	---	656.626	---	---	8
9	---	---	---	---	---	---	656.823	---	---	---	---	---	9
10	---	---	---	656.727	---	---	656.828	656.710	656.666	---	---	---	10
11	---	---	---	---	656.827	656.752	---	---	---	656.621	---	---	11
12	---	---	---	---	---	---	---	---	---	656.621	---	---	12
13	---	---	---	---	656.822	656.752	656.818	656.690	656.666	---	---	---	13
14	---	---	656.707	---	---	---	---	656.690	---	---	---	---	14
15	---	---	---	---	656.817	656.752	---	---	656.666	---	---	---	15
16	---	---	---	---	656.812	---	656.804	656.695	---	656.621	---	---	16
17	---	---	---	---	---	656.758	---	---	---	---	---	---	17
18	---	---	---	---	656.807	656.758	656.799	656.700	656.659	---	---	---	18
19	---	---	---	---	---	---	---	656.695	656.661	656.621	---	---	19
20	---	---	---	---	656.797	656.748	656.789	656.690	---	---	---	---	20
21	---	---	---	---	---	656.743	---	656.690	656.656	---	---	---	21
22	---	---	---	---	656.787	---	---	---	---	656.621	---	---	22
23	---	---	---	---	---	656.723	656.774	656.685	656.656	---	---	---	23
24	---	---	---	---	656.767	---	---	---	---	---	---	---	24
25	---	---	---	656.767	---	656.717	656.779	---	---	---	---	---	25
26	---	---	---	---	656.762	---	---	656.675	656.651	656.621	---	---	26
27	---	---	---	---	---	656.738	656.774	656.670	---	---	---	---	27
28	---	---	656.707	---	656.757	---	---	---	656.651	---	---	---	28
29	---		---	---	---	656.708	---	656.660	---	656.616	---	---	29
30	---		---	---	656.747	656.703	656.759	---	656.646	---	---	---	30
31	---		---		---		656.759	---		656.621		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 54 38 28 N
LONG 113 49 06 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA, 255 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

STEEN RIVER NEAR STEEN RIVER - STATION NO. 07OB004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.079B	0.040B	28.5B	21.5	1.96	0.292	0.027	0.023	---	---	1
2	---	---	0.077B	0.042B	24.5	20.4	1.83	0.316	0.025	0.043	---	---	2
3	---	---	0.073B	0.049B	21.9	18.2	1.63	0.301	0.024	0.146	---	---	3
4	---	---	0.073B	0.051B	21.9	14.9	1.50	0.272	0.022	0.225	---	---	4
5	---	---	0.070B	0.064B	22.5	13.8	1.41	0.229	0.022	0.352	---	---	5
6	---	---	0.071B	0.077B	22.6	16.0	1.34	0.140	0.022	0.377	---	---	6
7	---	---	0.066B	0.067B	23.9	17.8	1.46	0.136	0.022	0.413	---	---	7
8	---	---	0.065B	0.053B	25.9	19.0	1.51	0.137	0.021	0.429	---	---	8
9	---	---	0.064B	0.049B	29.1	19.0	1.48	0.136	0.021	0.491	---	---	9
10	---	---	0.064B	0.051B	31.0	18.2	1.32	0.142	0.021	0.462B	---	---	10
11	---	---	0.060B	0.054B	34.4	17.1	1.17	0.118	0.022	0.468B	---	---	11
12	---	---	0.059B	0.052B	34.5	15.7	0.978	0.096	0.022	0.450B	---	---	12
13	---	---	0.059B	0.047B	33.5	14.4	0.941	0.073	0.022	0.420B	---	---	13
14	---	---	0.056B	0.046B	31.3	13.2	0.873	0.071	0.022	0.432B	---	---	14
15	---	---	0.053B	0.045B	28.9	12.7	0.771	0.060	0.022	0.414B	---	---	15
16	---	---	0.049B	0.052B	26.0	12.9	0.698	0.045	0.022	0.378B	---	---	16
17	---	---	0.046B	0.079B	24.0	13.8	0.629	0.042	0.022	0.318B	---	---	17
18	---	---	0.049B	0.135B	23.0	14.9	0.576	0.035	0.022	0.246B	---	---	18
19	---	---	0.045B	0.184B	23.5	14.4	0.494	0.030	0.022	0.198B	---	---	19
20	---	---	0.043B	0.177B	25.0	12.3	0.444	0.027	0.022	0.165B	---	---	20
21	---	0.084B	0.043B	0.258B	25.5	10.5	0.367	0.025	0.022	0.146B	---	---	21
22	---	0.086B	0.040B	0.700B	23.5	7.76	0.284	0.027	0.022	0.145B	---	---	22
23	---	0.081B	0.040B	1.49 B	21.6	5.53	0.282	0.052	0.023	0.144B	---	---	23
24	---	0.083B	0.039B	3.44 B	19.9	3.87	0.293	0.121	0.025	0.144B	---	---	24
25	---	0.085B	0.038B	8.53 B	18.3	2.94	0.286	0.138	0.025	0.143B	---	---	25
26	---	0.083B	0.037B	12.6 B	17.2	2.40	0.260	0.141	0.025	0.146B	---	---	26
27	---	0.083B	0.037B	19.0 B	16.5A	2.18	0.246	0.098	0.025	0.143B	---	---	27
28	---	0.083B	0.036B	29.0 B	15.6A	2.12	0.248	0.067	0.024	0.145B	---	---	28
29	---		0.036B	33.0 B	15.2A	1.98	0.255	0.037	0.024	0.150B	---	---	29
30	---		0.036B	31.5 B	14.8	1.96	0.294	0.034	0.023	0.150B	---	---	30
31	---		0.037B		15.8		0.272	0.032		0.150B		---	31
TOTAL	---	---	1.640	140.932	739.8	361.24	26.101	3.470	0.685	8.056	---	---	TOTAL
MEAN	---	---	0.053	4.70	23.9	12.0	0.842	0.112	0.023	0.260	---	---	MEAN
MAX	---	---	0.079	33.0	34.5	21.5	1.96	0.316	0.027	0.491	---	---	MAX
MIN	---	---	0.036	0.040	14.8	1.96	0.246	0.025	0.021	0.023	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 5.23
MAXIMUM DAILY, 34.5 ON MAY 12
MINIMUM DAILY, 0.021 ON SEP 08
MAXIMUM INSTANTANEOUS,
34.7 AT 21:00 MST ON MAY 11

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 59 34 21 N
LONG 117 11 49 W
DRAINAGE AREA, 2 610 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2 260
FEB	---	AUG	300
MAR	142	SEP	59.2
APR	12 200	OCT	696
MAY	63 900	NOV	---
JUN	31 200	DEC	---

TOTAL DISCHARGE, 111 000 dam³

REMARKS - PEAK DISCHARGE MIGHT NOT BE MAXIMUM FOR THE YEAR.

STEEPBANK RIVER NEAR FORT MCMURRAY - STATION NO. 07DA006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.580B	0.359B	31.2	10.7	6.66	1.63	0.489	0.352	---	---	1
2	---	---	0.560B	0.383B	32.1	10.5	7.91	1.74	0.536	0.538	---	---	2
3	---	---	0.540B	0.495B	33.4	10.2	8.58	1.65	0.518	0.805	---	---	3
4	---	---	0.519B	0.824B	35.2	9.56	8.37	1.51	0.588	1.07	---	---	4
5	---	---	0.457B	0.605B	41.1	9.15	7.57	1.40	0.516	1.27	---	---	5
6	---	---	0.373B	0.671B	44.6	9.06	7.19	1.31	0.451	1.33	---	---	6
7	---	---	0.435B	0.655B	55.5	8.67	7.08	1.09	0.376	1.29	---	---	7
8	---	---	0.474B	0.549B	62.0	8.15	6.93	0.907	0.317	1.16	---	---	8
9	---	---	0.571B	0.490B	61.8	7.57	6.56	0.826	0.328	1.14	---	---	9
10	---	---	0.588B	0.465B	54.6	7.37	6.10	0.734	0.295	1.15	---	---	10
11	---	---	0.546B	0.460B	49.3	9.47	5.64	0.657	0.281	1.13	---	---	11
12	---	---	0.489B	0.480B	43.8	13.7	5.24	0.593	0.398	1.16	---	---	12
13	---	---	0.464B	0.490B	38.8	17.1	4.82	0.590	0.531	1.22	---	---	13
14	---	---	0.528B	0.495B	35.1	18.1	4.46	0.487	0.465	1.24	---	---	14
15	---	---	0.596B	0.485B	31.9	17.6	4.59	0.467	0.430	1.22 B	---	---	15
16	---	---	0.538B	0.500B	28.8	16.2	4.42	0.465	0.422	1.15 B	---	---	16
17	---	---	0.501B	0.600B	26.4	14.8	4.36	0.413	0.378	1.23 B	---	---	17
18	---	---	0.414B	1.20 B	24.5	14.3	4.34	0.408	0.402	1.40 B	---	---	18
19	---	---	0.456B	1.94 B	23.1	13.9	4.30	0.448	0.406	1.16 B	---	---	19
20	---	---	0.446B	5.07 B	22.1	12.8	4.26	0.436	0.401	1.08 B	---	---	20
21	---	---	0.357B	8.00 B	21.7	11.7	4.05	0.361	0.407	1.00 B	---	---	21
22	---	---	0.317B	12.1 B	21.0	10.6	3.94	0.554	0.388	1.18 B	---	---	22
23	---	---	0.269B	17.2 B	20.0	9.89	3.57	0.675	0.403	1.30 B	---	---	23
24	---	---	0.253B	21.2 B	18.9	9.53	3.35	0.758	0.453	1.23 B	---	---	24
25	---	---	0.315B	31.4 B	17.9	8.52	2.96	0.727	0.475	1.06 B	---	---	25
26	---	---	0.298B	28.8 B	16.4	7.60	2.68	0.661	0.378	1.05 B	---	---	26
27	---	---	0.290B	26.2 B	15.2	7.01	2.43	0.570	0.373	1.00 B	---	---	27
28	---	---	0.330B	27.8 B	13.8	6.44	2.20	0.813	0.430	0.970B	---	---	28
29	---	---	0.242B	29.1 B	12.8	6.00	2.02	0.722	0.378	0.940B	---	---	29
30	---		0.259B	30.0	11.8	5.58	1.82	0.464	0.334	0.920B	---	---	30
31	---		0.308B		10.7		1.67	0.407		0.900B		---	31
TOTAL	---	---	13.313	249.006	955.5	321.77	150.07	24.473	12.547	33.645	---	---	TOTAL
MEAN	---	---	0.430	8.30	30.8	10.7	4.84	0.790	0.418	1.09	---	---	MEAN
MAX	---	---	0.596	31.4	62.0	18.1	8.58	1.74	0.588	1.40	---	---	MAX
MIN	---	---	0.242	0.359	10.7	5.58	1.67	0.361	0.281	0.352	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 7.18
MAXIMUM DAILY, 62.0 ON MAY 08
MINIMUM DAILY, 0.242B ON MAR 29
MAXIMUM INSTANTANEOUS,
65.9 AT 00:33 MST ON MAY 09

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 00 14 N
LONG 111 24 53 W
DRAINAGE AREA, 1 320 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	13 000
FEB	---	AUG	2 110
MAR	1 150	SEP	1 080
APR	21 500	OCT	2 910
MAY	82 600	NOV	---
JUN	27 800	DEC	---

TOTAL DISCHARGE, 152 000 dam³

STIMSON CREEK NEAR PEKISKO - STATION NO. 05BL007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.130B	0.446B	0.455	4.67	0.385	0.489	0.136	0.088	0.153A	---	1
2	---	---	0.140B	0.454B	0.722	8.13	0.349	0.370	0.127	0.081	---	---	2
3	---	---	0.145B	0.481B	1.26	9.71	0.354	0.312	0.128	0.087	---	---	3
4	---	---	0.150B	0.498B	1.72	5.83	0.347	0.289	0.127	0.094	---	---	4
5	---	---	0.155B	0.470B	1.80	4.48	0.317	0.265	0.112	0.122	---	---	5
6	---	---	0.161B	0.323B	1.69	3.82	0.227	0.235A	0.109	0.156	---	---	6
7	---	---	0.161B	0.357B	1.44	3.34	0.310	0.189A	0.107	0.177	---	---	7
8	---	---	0.162B	0.394	1.19	2.90	0.614	0.160	0.104	0.151	---	---	8
9	---	---	0.162B	0.410	1.15 E	2.54	0.457	0.146	0.096	0.148	---	---	9
10	---	---	0.191B	0.280B	1.20 E	2.27	0.276	0.139	0.090	0.172	---	---	10
11	---	---	0.185B	0.160B	1.16 E	2.21	0.210	0.136	0.080	0.225	---	---	11
12	---	---	0.182B	0.262	1.08 E	1.93	0.197	0.138	0.078	0.163	---	---	12
13	---	---	0.161B	0.277	1.00 E	1.96	0.170	0.260E	0.075	0.258	---	---	13
14	---	0.021B	0.182B	0.258	0.970E	3.36	0.151	0.240E	0.084	0.253	---	---	14
15	---	0.018B	0.166B	0.339	0.921A	2.48	0.148	0.230E	0.096	0.242B	---	---	15
16	---	0.015B	0.158B	0.394	0.865E	1.82	0.152A	0.220E	0.095	0.226	---	---	16
17	---	0.012B	0.165B	0.429	0.810E	1.92	0.290E	0.212E	0.082	0.225B	---	---	17
18	---	0.010B	0.121B	0.389	0.798E	1.60	0.449E	0.300E	0.075	0.274	---	---	18
19	---	0.012B	0.118B	0.396	0.820E	1.31	0.608E	0.600E	0.069	0.260	---	---	19
20	---	0.014B	0.114B	0.431	0.845E	1.15	0.765E	1.37 E	0.067	0.250B	---	---	20
21	---	0.016B	0.110B	0.483	0.820E	1.18	0.720E	0.710A	0.103	0.248	---	---	21
22	---	0.020B	0.108B	0.482	0.804E	1.09	0.610E	0.438	0.133	0.241	---	---	22
23	---	0.040B	0.105B	0.453	0.789A	0.946	0.510E	0.300A	0.118	0.235B	---	---	23
24	---	0.060B	0.102B	0.405	0.903	0.778	0.410E	0.205A	0.097	0.242	---	---	24
25	---	0.060B	0.099B	0.349	5.31	0.688	0.310A	0.241	0.099	0.233	---	---	25
26	---	0.060B	0.096B	0.363	10.1	0.604	0.971	0.399	0.102	0.222	---	---	26
27	---	0.070B	0.093B	0.453	8.72	0.530	1.46	0.487	0.098	0.221	---	---	27
28	---	0.100B	0.090B	0.586	6.36	0.508	0.970	0.341	0.095	0.161	---	---	28
29	---		0.250B	0.423	8.89	0.470	0.720E	0.250	0.095	0.142	---	---	29
30	---		0.386B	0.399	7.82	0.431	0.660E	0.190	0.093	0.136	---	---	30
31	---		0.437B		5.85		0.489A	0.160		0.192		---	31
TOTAL	---	---	4.985	11.844	78.282	74.655	14.606	10.021	2.970	6.025	---	---	TOTAL
MEAN	---	---	0.161	0.395	2.53	2.49	0.471	0.323	0.099	0.194	---	---	MEAN
MAX	---	---	0.437	0.586	10.1	9.71	1.46	1.37	0.136	0.274	---	---	MAX
MIN	---	---	0.090	0.160	0.455	0.431	0.148	0.136	0.067	0.081	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.830
MAXIMUM DAILY, 10.1 ON MAY 26
MINIMUM DAILY, 0.067 ON SEP 20
MAXIMUM INSTANTANEOUS,
15.4 AT 00:20 MST ON JUN 03

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 25 50 N
LONG 114 09 55 W
DRAINAGE AREA, 263 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1966

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 260
FEB	---	AUG	866
MAR	431	SEP	257
APR	1 020	OCT	521
MAY	6 760	NOV	---
JUN	6 450	DEC	---

TOTAL DISCHARGE, 17 600 dam³

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARK. TIME UNKNOWN.

STIRLING LAKE OUTFLOW NEAR STIRLING - STATION NO. 05AF029

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.421B	0.205	0.223	0.349	1.89	0.951	0.471	2.36	0.261A	---	1
2	---	---	0.310B	0.196	0.234	0.326	2.34	0.853	0.302	1.95	---	---	2
3	---	---	0.223B	0.219	0.362	0.782	2.02	1.97	0.556	1.86	---	---	3
4	---	---	0.134B	0.206	0.327	0.673	1.54	2.09	0.789	1.64	---	---	4
5	---	---	0.080B	0.178	0.278	0.593	1.04	1.93	1.33	1.48	---	---	5
6	---	---	0.073B	0.158	0.234	0.502	1.54	1.72	1.01	1.33	---	---	6
7	---	---	0.072B	0.146	0.199	0.438	1.37	1.21	0.426	1.21	---	---	7
8	---	---	0.070B	0.152	0.194	0.366	1.70	0.732	0.334	1.26	---	---	8
9	---	---	0.069B	0.132B	0.182	0.312	2.07	0.510	0.464	0.958	---	---	9
10	---	---	0.068B	0.113B	0.172	0.354	1.02	0.582	0.771	1.19	---	---	10
11	---	---	0.068B	0.152B	0.148	0.531	0.665	1.49	0.764	1.19	---	---	11
12	---	---	0.069B	0.215	0.131	0.761	0.719	1.51	1.21	0.860	---	---	12
13	---	---	0.069B	0.221	0.112	1.12	0.896	1.13	0.964	0.821	---	---	13
14	---	---	0.069B	0.221	0.089	1.59	1.30	0.708	0.755	0.992	---	---	14
15	---	---	0.070B	0.183	0.071	1.00	1.62	0.702	0.822	1.06	---	---	15
16	---	---	0.070B	0.179	0.072	0.583	2.62	0.654	1.65	1.06	---	---	16
17	---	---	0.071B	0.116	0.073	0.437	1.77	1.30	1.90	1.20	---	---	17
18	---	---	0.113B	0.096	0.146	0.305	1.72	1.84	1.99	1.18	---	---	18
19	---	---	0.251B	0.077	0.230	0.236	2.64	1.67	1.68	1.19	---	---	19
20	---	---	0.370B	0.061	0.770	0.236	4.08	0.878	1.03	1.20	---	---	20
21	---	---	0.385B	0.059	0.766	0.252	2.84	0.721	0.872	1.17	---	---	21
22	---	---	0.395B	0.056	0.661	0.296	2.79	0.974	1.36	1.14	---	---	22
23	---	---	0.400B	0.053	0.625	0.241	3.05	1.57	0.921	1.47	---	---	23
24	---	---	0.390B	0.048	1.09	0.399	2.15	1.02	0.460	1.57	---	---	24
25	---	---	0.381B	0.044	3.58	0.595	2.03	0.846	0.441	1.66	---	---	25
26	---	0.676B	0.372B	0.050	2.94	0.848	2.89	1.13	0.775	1.50	---	---	26
27	---	0.713B	0.267B	0.058B	1.29	1.61	3.64	1.20	1.88	0.984	---	---	27
28	---	0.469B	0.253B	0.081B	0.687	1.75	3.34	1.17	1.94	0.507	---	---	28
29	---		0.258B	0.105B	0.514	1.58	2.72	0.967	2.32	0.334	---	---	29
30	---		0.261B	0.154	0.508	1.76	2.51	0.759	2.77	0.271	---	---	30
31	---		0.236		0.410		1.49	0.648		0.244		---	31
TOTAL	---	---	6.346	3.934	17.317	20.845	64.010	35.435	32.957	36.841	---	---	TOTAL
MEAN	---	---	0.205	0.131	0.559	0.695	2.06	1.14	1.10	1.19	---	---	MEAN
MAX	---	---	0.421	0.221	3.58	1.76	4.08	2.09	2.77	2.36	---	---	MAX
MIN	---	---	0.068	0.044	0.071	0.236	0.665	0.510	0.302	0.244	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.889
MAXIMUM DAILY, 4.08 ON JUL 20
MINIMUM DAILY, 0.044 ON APR 25
MAXIMUM INSTANTANEOUS,
5.76 AT 09:20 MST ON JUL 20

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 31 50 N
LONG 112 30 29 W

B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	5 530
FEB	---	AUG	1 060
MAR	540	SEP	2 850
APR	340	OCT	3 180
MAY	1 500	NOV	---
JUN	1 800	DEC	---

TOTAL DISCHARGE, 18 800 dam³

STONY CREEK NEAR TAWATINAW - STATION NO. 07BE004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.038B	0.689B	0.256	0.082E	2.59	0.004	0.013	0.006	---	---	1
2	---	---	0.038B	0.626B	0.213	0.079E	1.75	0.004	0.015	0.007	---	---	2
3	---	---	0.038B	0.667B	0.217	0.075E	1.88	0.003	0.012	0.083	---	---	3
4	---	---	0.038B	0.654B	0.193	0.071E	2.19	0.003	0.009	0.074	---	---	4
5	---	---	0.038B	0.549B	0.172	0.064A	1.43	0.003	0.007	0.061	---	---	5
6	---	---	0.038B	0.472B	0.144	0.064	1.11	0.003	0.009	0.048	---	---	6
7	---	---	0.038B	0.447	0.138	0.066	1.01	0.003	0.008	0.042	---	---	7
8	---	---	0.038B	0.349A	0.171	0.053	0.977	0.003	0.009	0.045	---	---	8
9	---	---	0.038B	0.278E	0.222	0.054	0.838	0.003	0.010	0.044	---	---	9
10	---	---	0.038B	0.292A	0.210	0.054	0.841	0.003	0.009	0.041	---	---	10
11	---	---	0.038B	0.226	0.224	0.068	0.691	0.003	0.010	0.038	---	---	11
12	---	---	0.038B	0.207	0.162	0.073	0.605	0.003	0.026	0.036	---	---	12
13	---	---	0.038B	0.173	0.108	0.072	0.490	0.003	0.044	0.035	---	---	13
14	---	---	0.038B	0.164	0.271	0.079	0.354	0.004	0.020	0.037	---	---	14
15	---	---	0.038B	0.143	0.131	0.061	0.308	0.005A	0.012	0.037	---	---	15
16	---	---	0.038B	0.168	0.135	0.049	0.267	0.005E	0.007	0.033	---	---	16
17	---	---	0.038B	0.178	0.108	0.041	0.313	0.005E	0.005	0.032	---	---	17
18	---	---	0.038B	0.175	0.107	0.042	0.299	0.004E	0.006	0.030	---	---	18
19	---	---	0.038B	0.165	0.113	0.058	0.226	0.004E	0.005	0.031	---	---	19
20	---	---	0.038B	0.155	0.114	0.044	0.173	0.003E	0.004	0.036	---	---	20
21	---	---	0.038B	0.133	0.104	0.030	0.143	0.004A	0.003	0.033	---	---	21
22	---	---	0.038B	0.112	0.117	0.024	0.102	0.006	0.004	0.033	---	---	22
23	---	---	0.038B	0.046	0.110	0.015	0.088	0.007	0.004	0.030	---	---	23
24	---	---	0.038B	0.576	0.310	0.009	0.054	0.006	0.004	0.022	---	---	24
25	---	---	0.038B	1.53	0.370	0.007	0.040	0.003	0.004	0.021	---	---	25
26	---	---	0.038B	0.742	0.148	0.006	0.031	0.003	0.004	0.025	---	---	26
27	---	---	0.038B	0.534	0.097	0.008	0.020	0.003	0.005	0.029	---	---	27
28	---	---	0.112B	0.456	0.093E	0.007	0.011	0.002	0.006	0.031	---	---	28
29	---	---	0.551B	0.370	0.090E	0.006	0.009	0.002	0.007	0.049A	---	---	29
30	---		0.944B	0.320	0.089E	0.855	0.007	0.003	0.007	0.050E	---	---	30
31	---		0.702B		0.086E		0.005	0.009		0.050E		---	31
TOTAL	---	---	3.235	11.596	4.993	2.216	18.852	0.119	0.288	1.169	---	---	TOTAL
MEAN	---	---	0.104	0.387	0.161	0.074	0.608	0.004	0.010	0.038	---	---	MEAN
MAX	---	---	0.844	1.53	0.370	0.855	2.59	0.009	0.044	0.083	---	---	MAX
MIN	---	---	0.038	0.046	0.086	0.006	0.005	0.002	0.003	0.006	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.173
MAXIMUM DAILY, 2.59 ON JUL 01
MINIMUM DAILY, 0.002 ON AUG 28
MAXIMUM INSTANTANEOUS,
4.86 AT 19:20 MST ON JUN 30

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 17 35 N
LONG 113 27 45 W
DRAINAGE AREA, 128 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 630
FEB	---	AUG	10.3
MAR	280	SEP	24.9
APR	1 000	OCT	101
MAY	431	NOV	---
JUN	191	DEC	---

TOTAL DISCHARGE, 3 670 dam³

STRAWBERRY CREEK NEAR THE MOUTH - STATION NO. 05DF004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.075B	4.80B	2.45	1.42	0.561	0.275	0.194	0.082	---	---	1
2	---	---	0.075B	9.00B	2.13	1.34	0.495	0.291	0.154	0.084	---	---	2
3	---	---	0.100B	9.00B	1.87	1.11	144	0.265	0.158	0.084	---	---	3
4	---	---	1.00 B	7.94	1.71	1.01	179	0.226	0.130	0.088	---	---	4
5	---	---	3.00 B	5.37	1.70	1.21	33.7	0.217	0.115	0.102	---	---	5
6	---	---	6.69 B	3.88	1.53	2.95	25.8	0.201	0.112	0.105	---	---	6
7	---	---	5.92 B	3.04	1.33	2.41	31.9	0.195	0.107	0.112	---	---	7
8	---	---	4.47 B	2.59	1.34	1.72	15.7	0.187	0.100	0.104	---	---	8
9	---	---	2.39 B	2.04	1.51	1.53	7.52	0.176	0.097	0.100	---	---	9
10	---	---	1.98 B	1.63	2.22	1.34	4.47	0.159	0.095	0.101	---	---	10
11	---	---	1.86 B	1.44	1.97	1.21	2.89	0.154	0.093	0.113	---	---	11
12	---	---	1.74 B	1.42	1.71	5.06	2.04	0.151	0.093	0.113	---	---	12
13	---	---	1.72 B	1.68	1.44	13.3	1.46	0.147	0.095	0.113	---	---	13
14	---	---	1.80 B	2.04	1.28	15.1	1.14	0.143	0.084	0.113	---	---	14
15	---	---	2.20 B	2.20	1.16	6.66	0.948	0.138	0.090	0.121	---	---	15
16	---	---	3.00 B	2.10	1.02	3.23	0.963	0.153	0.092	0.118	---	---	16
17	---	---	3.80 B	2.00	0.904	1.94	0.947	0.165	0.078	0.118	---	---	17
18	---	---	4.70 B	1.94	0.835	1.34	0.897	0.167	0.076	0.113	---	---	18
19	---	---	8.00 B	1.86	0.840	0.972	0.866	0.157	0.074	0.121	---	---	19
20	---	---	7.70 B	1.91	0.872	0.774	0.779	0.162	0.072	0.128	---	---	20
21	---	---	6.98 B	2.07	0.779	0.681	0.699	0.145	0.071	0.120	---	---	21
22	---	---	4.50 B	2.12	0.953	0.551	0.636	0.151	0.070	0.119	---	---	22
23	---	---	3.30 B	2.74	1.23	0.461	0.573	0.144	0.076	0.118	---	---	23
24	---	---	2.80 B	11.0	1.98	0.394	0.540	0.132	0.074	0.120	---	---	24
25	---	---	2.30 B	12.2	5.46	0.328	0.484	0.122	0.065	0.120	---	---	25
26	---	---	1.67 B	7.75	5.99	0.357	0.505	0.126	0.068	0.122	---	---	26
27	---	---	1.80 B	4.93	3.94	0.412	0.489	0.126	0.071	0.123	---	---	27
28	---	0.075B	2.50 B	3.67	2.43	0.693	0.415	0.118	0.072	0.124	---	---	28
29	---		3.00 B	3.04	1.74	1.03	0.351	0.114	0.076	0.122	---	---	29
30	---		3.60 B	2.71	1.40	0.858	0.325	0.115	0.081	0.122A	---	---	30
31	---		4.30 B		1.32		0.305	0.162		0.120E		---	31
TOTAL	---	---	98.970	120.11	57.023	71.391	461.418	5.184	2.823	3.463	---	---	TOTAL
MEAN	---	---	3.19	4.00	1.84	2.38	14.9	0.167	0.094	0.112	---	---	MEAN
MAX	---	---	8.00	12.2	5.99	15.1	179	0.291	0.194	0.128	---	---	MAX
MIN	---	---	0.075	1.42	0.779	0.328	0.305	0.114	0.065	0.082	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.35
MAXIMUM DAILY, 179 ON JUL 04
MINIMUM DAILY, 0.065 ON SEP 25
MAXIMUM INSTANTANEOUS
309 AT 01:03 MST ON JUL 04

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 10 41 N
LONG 114 03 02 W
DRAINAGE AREA 584 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	39 900
FEB	---	AUG	448
MAR	8 550	SEP	244
APR	10 400	OCT	299
MAY	4 930	NOV	---
JUN	6 170	DEC	---

TOTAL DISCHARGE, 70 900 dam³

STRETTON CREEK NEAR MARWAYNE - STATION NO. 05EE005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	3.86 B	0.018	0	0	0	0	0	---	---	1
2	---	---	0 B	3.74 B	0.013	0	0	0	0	0	---	---	2
3	---	---	0 B	2.46 B	0.013	0	0	0	0	0	---	---	3
4	---	---	0 B	1.50 B	0.012	0	0	0	0	0	---	---	4
5	---	---	0 B	0.866B	0.016	0	0	0	0	0	---	---	5
6	---	---	0 B	0.511B	0.019	0	0	0	0	0	---	---	6
7	---	---	0 B	0.304B	0.024	0	0	0	0	0	---	---	7
8	---	---	0 B	0.148B	0.030	0	0	0	0	0	---	---	8
9	---	---	0 B	0.057B	0.029	0	0	0	0	0	---	---	9
10	---	---	0 B	0.027B	0.028	0	0	0	0	0	---	---	10
11	---	---	0 B	0.023B	0.028	0	0	0	0	0	---	---	11
12	---	---	0 B	0.022B	0.028	0	0	0	0	0	---	---	12
13	---	---	0 B	0.022	0.027	0	0	0	0	0	---	---	13
14	---	---	0 B	0.022	0.027	0	0	0	0	0	---	---	14
15	---	---	0 B	0.023	0.027	0	0	0	0	0	---	---	15
16	---	---	0 B	0.023	0.028	0	0	0	0	0	---	---	16
17	---	---	0 B	0.024	0.028	0	0	0	0	0	---	---	17
18	---	---	0 B	0.024	0.028	0	0	0	0	0	---	---	18
19	---	---	0 B	0.040	0.028	0	0	0	0	0	---	---	19
20	---	---	0 B	0.027	0.028	0	0	0	0	0	---	---	20
21	---	---	0 B	0.032	0.028	0	0	0	0	0	---	---	21
22	---	---	0 B	0.028	0.027	0	0	0	0	0	---	---	22
23	---	---	0 B	0.030	0.026	0	0	0	0	0	---	---	23
24	---	---	0 B	0.034	0.022	0	0	0	0	0	---	---	24
25	---	---	0 B	0.027	0.015	0	0	0	0	0	---	---	25
26	---	---	0 B	0.023	0.011	0	0	0	0	0	---	---	26
27	---	---	0 B	0.022	0.007	0	0	0	0	0	---	---	27
28	---	---	0.020B	0.018	0.004	0	0	0	0	0	---	---	28
29	---	---	1.93 B	0.018	0.002	0	0	0	0	0	---	---	29
30	---		2.32 B	0.019	0	0	0	0	0	0A	---	---	30
31	---		3.63 B		0		0	0		0E		---	31
TOTAL	---	---	8.500	13.974	0.621	0	0	0	0	0	---	---	TOTAL
MEAN	---	---	0.274	0.466	0.020	0	0	0	0	0	---	---	MEAN
MAX	---	---	3.63	3.86	0.030	0	0	0	0	0	---	---	MAX
MIN	---	---	0	0.018	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.094
MAXIMUM DAILY, 3.86B ON APR 01
MINIMUM DAILY, 0B ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 26 30 N
LONG 110 19 30 W
DRAINAGE AREA, 82.1 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	---	AUG	0
MAR	734	SEP	0
APR	1 210	OCT	0
MAY	53.7	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 2 000 dam³

STURGEON LAKE AT WILLIAMSON PARK - STATION NO. 07GH003

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	677.069	677.489	677.093	676.868	---	676.750	---	1
2	---	---	---	---	---	677.069	677.459	---	676.858	---	---	---	2
3	---	---	---	676.864	---	677.058	677.460	677.049	676.856	---	---	---	3
4	---	---	---	---	676.983	677.058	677.444	677.034	676.853	---	---	---	4
5	---	---	---	---	---	677.057	677.430	---	---	676.757	---	---	5
6	---	---	---	---	---	677.057	677.421	---	---	676.757	---	---	6
7	---	---	---	---	676.995	677.067	677.411	---	---	676.762	---	---	7
8	---	---	---	---	677.001	677.046	677.396	676.980	676.843	676.762	---	---	8
9	---	---	---	---	677.001	677.051	677.402	676.980	676.838	---	---	---	9
10	---	---	---	---	---	677.055	677.392	676.975	676.833	---	---	---	10
11	---	---	---	---	677.003	---	677.367	676.975	---	676.757	---	---	11
12	---	---	---	676.897	---	---	677.355	676.965	---	676.762	---	---	12
13	---	---	---	---	---	677.309	677.338	676.965	676.833	---	---	---	13
14	---	---	---	---	677.010	677.378	677.313	---	676.823	---	---	---	14
15	---	---	---	---	677.015	677.463	677.294	676.966	676.823	676.757	---	---	15
16	---	---	---	---	677.021	677.438	677.274	676.966	676.823	676.757	---	---	16
17	---	---	---	---	677.001	677.509	677.264	676.931	676.823	676.752	---	---	17
18	---	---	---	---	677.022	677.524	677.260	---	---	676.752	---	---	18
19	---	---	---	---	677.023	677.537	677.235	676.921	---	676.752	---	---	19
20	---	676.857	---	676.928	677.038	677.561	677.225	676.912	676.823	676.747	---	---	20
21	---	---	676.830	---	677.024	---	677.226	676.882	676.818	676.747	---	---	21
22	---	---	---	---	677.039	677.565	677.216	676.872	676.813	676.747	---	---	22
23	---	---	---	---	677.035	677.565	677.201	676.867	676.813	---	---	---	23
24	---	---	---	676.939	677.046	677.559	677.187	676.872	676.808	---	---	---	24
25	---	---	---	---	677.046	677.559	677.169	676.868	676.803	676.742	---	---	25
26	---	---	---	---	677.052	677.559	677.175	676.863	676.791	676.747	---	---	26
27	---	---	---	---	677.057	677.530	---	676.847	676.783	---	---	---	27
28	---	---	---	---	677.058	677.518	677.113	---	676.778	676.752	---	---	28
29	---		---	---	677.054	677.508	677.118	---	---	676.752	---	---	29
30	---		---	---	677.070	---	677.108	---	---	676.757	---	---	30
31	---		---		677.069		677.098	676.856		676.757		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

WATER LEVELS IN METRES

MAXIMUM DAILY, 677.565 ON JUN 22

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 55 05 00 N
LONG 117 33 30 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA, 642 km²

STURGEON RIVER NEAR FORT SASKATCHEWAN - STATION NO. 05EA001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	2.00B	7.48B	8.07	3.72	0.780	2.52	3.72	3.70	---	---	1
2	---	---	2.00B	7.80B	8.15	3.36	0.799	2.37	3.87	3.73A	---	---	2
3	---	---	2.00B	6.69B	8.15	2.99	3.70	2.63	3.83	3.67	---	---	3
4	---	---	2.10B	6.41B	8.14	2.96	8.35	2.69	3.67	3.73A	---	---	4
5	---	---	2.10B	6.50B	8.14	3.01	7.30	2.74	3.58	3.71E	---	---	5
6	---	---	2.20B	6.92B	7.99	3.04	4.61	2.77	3.51	3.69E	---	---	6
7	---	---	2.20B	8.02B	7.82	2.75	3.12	2.78	3.48	3.67E	---	---	7
8	---	---	2.30B	6.86B	7.72	2.29	2.41	2.81	3.52	3.65E	---	---	8
9	---	---	2.30B	7.40B	7.52	2.09	2.04	2.87	3.53	3.63E	---	---	9
10	---	---	2.73B	7.80B	7.36	2.03	1.90	2.95	3.52	3.61E	---	---	10
11	---	---	2.96B	8.41B	7.17	1.85	1.90	3.00	3.49	3.59E	---	---	11
12	---	---	3.02B	10.7 B	7.01	1.67	1.95	3.06	3.53	3.57E	---	---	12
13	---	---	3.14B	8.89	6.92	1.56	2.00	3.06	3.51	3.55E	---	---	13
14	---	---	2.93B	8.62	6.85	1.49	2.04	3.05	3.50	3.53E	---	---	14
15	---	---	2.96B	8.43	6.73	1.35	2.10	3.07	3.51	3.51E	---	---	15
16	---	---	3.20B	8.14	6.63	1.24	2.26	3.46	3.52	3.49E	---	---	16
17	---	---	3.31B	7.96	6.46	1.18	2.42	3.26	3.54	3.47E	---	---	17
18	---	---	6.15B	7.73	6.34	1.09	2.47	3.38	3.52	3.45E	---	---	18
19	---	---	8.82B	7.53	6.14	1.03	2.57	3.43	3.58	3.43E	---	---	19
20	---	---	8.52B	7.30	5.92	0.928	2.54	3.36	3.56	3.41E	---	---	20
21	---	---	6.82B	7.10	5.78	0.873	2.52	3.32	3.56	3.39E	---	---	21
22	---	---	5.00B	6.94	5.66	0.805	2.50	3.35	3.57	3.37E	---	---	22
23	---	---	3.95B	6.78	5.71	0.737	2.51	3.35	3.54	3.35E	---	---	23
24	---	---	3.95B	6.96	5.82	0.694	2.49	3.30	3.54	3.33A	---	---	24
25	---	---	3.52B	7.58	5.51	0.656	2.46	3.32	3.58	3.29	---	---	25
26	---	---	4.27B	7.36	5.15	0.699	2.51	3.38	3.62	3.23	---	---	26
27	---	---	6.29B	7.23	4.84	0.741	2.48	3.38	3.63	3.17	---	---	27
28	---	---	7.74B	7.41	4.64	0.716	2.47	3.36	3.64	3.15	---	---	28
29	---	---	8.36B	7.59	4.41	0.824	2.49	3.35	3.64	3.06	---	---	29
30	---		8.65B	7.83	4.13	0.847	2.48	3.53	3.67	3.09A	---	---	30
31	---		8.74B		3.82		2.51	3.99		3.09E		---	31
TOTAL	---	---	133.23	228.37	200.70	49.220	84.679	97.09	107.48	107.31	---	---	TOTAL
MEAN	---	---	4.30	7.61	6.47	1.64	2.73	3.13	3.58	3.46	---	---	MEAN
MAX	---	---	8.82	10.7	8.15	3.72	8.35	3.99	3.87	3.73	---	---	MAX
MIN	---	---	2.00	6.41	3.82	0.656	0.780	2.52	3.48	3.06	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.11
MAXIMUM DAILY, 10.7B ON APR 12
MINIMUM DAILY, 0.656 ON JUN 25

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 47 14 N
LONG 113 13 23 W
DRAINAGE AREA, 3 350 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	7 320
FEB	---	AUG	8 390
MAR	11 500	SEP	9 290
APR	19 700	OCT	9 270
MAY	17 300	NOV	---
JUN	4 250	DEC	---

TOTAL DISCHARGE, 87 000 dam³

STURGEON RIVER NEAR MAGNOLIA BRIDGE - STATION NO. 05EA010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	0.600B	2.88 B	0.494	0.521	0.082	0.005	0.018	0	---	---
2	---	---	0.580B	2.31 B	0.426	0.317	0.080	0.003	0.011	0	---	---
3	---	---	0.570B	1.90 B	0.489	0.253	5.73	0.003	0.009	0	---	---
4	---	---	0.540B	1.58 B	0.290	0.365	15.0	0.001	0.005	0	---	---
5	---	---	0.500B	1.08 B	0.279	1.28	6.58	0	0.002	0	---	---
6	---	---	0.460B	0.809	0.244	0.844	3.43	0	0	0	---	---
7	---	---	0.420B	0.633	0.230	0.765	2.66	0	0	0	---	---
8	---	---	0.360B	0.443	0.365	0.577	1.50	0	0	0	---	---
9	---	---	0.250B	0.298	0.389	0.550	0.560	0	0	0.002	---	---
10	---	---	0.175B	0.243	0.320	0.358	0.315	0	0	0.004	---	---
11	---	---	0.155B	0.230	0.280	0.863	0.600	0	0	0.004	---	---
12	---	---	0.094B	0.296	0.254	2.21	0.244	0	0	0.007	---	---
13	---	---	0.091B	0.456	0.231	3.31	0.082	0	0	0.003	---	---
14	---	---	0.319B	0.619	0.235	2.78	0.048	0	0	0.003	---	---
15	---	---	0.708B	0.651	0.285	1.67	0.034	0	0	0.004	---	---
16	---	---	1.27 B	0.497	0.210	0.920	0.037	0.001	0	0.036	---	---
17	---	---	1.40 B	0.429	0.176	0.587	0.068	0.001	0.002	0.019	---	---
18	---	---	1.13 B	0.339	0.175	0.414	0.040	0.002	0.001	0.021	---	---
19	---	---	1.53 B	0.474	0.183	0.298	0.030	0.002	0.001	0.019	---	---
20	---	---	1.96 B	0.509	0.221	0.274	0.035	0.001	0.001	0.018	---	---
21	---	---	1.41 B	0.542	0.212	0.209	0.027	0	0	0.015	---	---
22	---	---	0.638B	0.427	0.347	0.167	0.020	0.004	0	0.012	---	---
23	---	---	0.165B	0.476	0.827	0.136	0.022	0.012	0	0.008	---	---
24	---	---	0.126B	0.698	0.614	0.124	0.019	0.010	0	0.007	---	---
25	---	---	0.083B	1.34	0.903	0.114	0.017	0.007	0	0.006	---	---
26	---	---	0.096B	0.857	0.640	0.128	0.039	0.006	0	0.004	---	---
27	---	---	0.439B	0.766	0.408	0.118	0.018	0.004	0	0.005	---	---
28	---	---	1.56 B	0.650	0.291	0.108	0.015	0.003	0	0.004	---	---
29	---	---	2.31 B	0.487	0.231	0.090	0.011	0.003	0	0.003	---	---
30	---		2.90 B	0.403	0.273	0.093	0.010	0.004	0	0.004	---	---
31	---		2.88 B		0.746		0.008	0.028		0.005	---	---
										0.005A		
TOTAL	---	---	25.799	23.422	11.268	20.443	37.361	0.100	0.050	0.218	---	---
MEAN	---	---	0.832	0.781	0.364	0.681	1.21	0.003	0.002	0.007	---	---
MAX	---	---	2.90	2.88	0.903	3.31	15.0	0.028	0.018	0.036	---	---
MIN	---	---	0.083	0.230	0.175	0.090	0.008	0	0	0	---	---

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.484
MAXIMUM DAILY, 15.0 ON JUL 04
MINIMUM DAILY, 0 ON AUG 05
MAXIMUM INSTANTANEOUS,
19.3 AT 04:28 MST ON JUL 04

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 35 29 N
LONG 114 51 35 W
DRAINAGE AREA, 121 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3 230
FEB	---	AUG	8.64
MAR	2 230	SEP	4.32
APR	2 020	OCT	18.8
MAY	974	NOV	---
JUN	1 770	DEC	---

TOTAL DISCHARGE, 10 300 dam³

STURGEON RIVER NEAR VILLENEUVE - STATION NO. 05EA005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	3.19B	1.15B	2.21 B	3.83B	6.89	3.52	1.96	2.16	1.56	1.10	0.858	0.210B
2	3.05B	1.10B	2.22 B	3.72B	6.09	3.41	1.89	2.14	1.64	1.04	0.900B	0.200B
3	2.93B	1.15B	2.23 B	3.77B	5.54	3.36	2.80	2.05	1.72	0.981	0.900B	0.220B
4	2.71B	1.25B	2.24 B	3.48B	4.99	3.38	5.67	2.00	1.72	0.911	0.900B	0.270B
5	2.66B	1.30B	2.25 B	3.97B	4.60	3.52	8.46	1.89	1.70	0.939	0.900B	0.350B
6	2.67B	1.40B	2.26 B	4.29B	4.39	3.40	10.7	1.85	1.69	0.863	0.880B	0.410B
7	2.68B	1.40B	2.27 B	4.25B	4.14	3.27	12.0	1.91	1.70	0.904	0.860B	0.420B
8	2.63B	1.45B	2.28 B	4.25B	3.99	3.18	13.0	1.78	1.61	0.974	0.847B	0.410B
9	2.62B	1.45B	2.29 B	4.20B	4.26	3.12	13.8	1.70	1.70	0.992	0.830B	0.410B
10	2.53B	1.45B	1.50 B	4.20B	4.57	2.90	13.9	1.69	1.68	0.975	0.812B	0.400B
11	2.31B	1.45B	1.09 B	3.87B	4.48	2.76	13.5	1.61	1.59	1.01	0.850B	0.400B
12	2.24B	1.45B	1.04 B	3.70	4.27	2.71	12.6	1.61	1.55	0.984	0.836B	0.400B
13	2.18B	1.43B	0.683B	3.62	4.00	2.67	11.4	1.74	1.52	1.02	0.820B	0.390B
14	2.35B	1.43B	0.508B	3.80	3.88	2.63	9.67	1.74	1.50	0.978	0.804B	0.390B
15	2.35B	1.47B	1.25 B	3.93	3.84	2.61	7.93	1.63	1.41	1.02	0.824B	0.390B
16	2.34B	1.49B	2.24 B	3.72	3.83	2.54	6.90	1.67	1.38	0.999E	0.812B	0.390B
17	2.31B	1.64B	2.85 B	3.57	3.79	2.50	5.99	1.68	1.48	0.978E	0.748B	0.380B
18	2.23B	1.72B	4.03 B	3.48	3.87	2.48	5.17	1.67	1.49	0.957E	0.716B	0.380B
19	2.09B	1.95B	5.80 B	3.50	3.76	2.42	4.57	1.62	1.43	0.936E	0.693B	0.380B
20	2.09B	2.07B	6.46 B	3.53	3.69	2.36	4.03	1.67	1.36	0.915E	0.678B	0.370B
21	2.12B	2.05B	6.25 B	3.56	3.66	2.28	3.59	1.64	1.36	0.894E	0.557B	0.360B
22	2.18B	2.08B	5.69 B	3.55	3.70	2.26	3.33	1.65	1.30	0.873E	0.496B	0.360B
23	2.20B	2.05B	5.41 B	3.69	3.77	2.18	3.09	1.59	1.21	0.852E	0.423B	0.350B
24	2.10B	2.10B	4.94 B	5.01	3.86	2.14	2.90	1.54	1.20	0.830A	0.366B	0.350B
25	2.03B	2.19B	4.22 B	7.15	3.81	2.04	2.72	1.48	1.19	0.786	0.335B	0.340B
26	1.79B	2.20B	3.74 B	8.50	3.85	2.06	2.69	1.49	1.23	0.758	0.320B	0.330B
27	1.61B	2.21B	3.37 B	8.99	3.85	2.06	2.65	1.57	1.15	0.735	0.300B	0.330B
28	1.41B	2.21B	3.24 B	8.98	3.72	2.04	2.49	1.54	1.09	0.722	0.280B	0.320B
29	1.29B		3.40 B	8.31	3.67	2.00	2.38	1.56	1.04	0.772	0.260B	0.320B
30	1.21B		3.93 B	7.62	3.66	1.99	2.36	1.53	1.05	0.763	0.243B	0.310B
31	1.16B		4.04 B		3.61		2.25	1.62		0.813		0.300B
TOTAL	69.46	46.29	96.011	142.04	130.03	79.79	196.39	53.02	43.25	28.274	20.048	10.840
MEAN	2.24	1.65	3.10	4.73	4.19	2.66	6.34	1.71	1.44	0.912	0.668	0.350
MAX	3.19	2.21	6.46	8.99	6.89	3.52	13.9	2.16	1.72	1.10	0.900	0.420
MIN	1.16	1.10	0.508	3.48	3.61	1.99	1.89	1.48	1.04	0.722	0.243	0.200

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.51
MAXIMUM DAILY, 13.9 ON JUL 10
MINIMUM DAILY, 0.200B ON DEC 02
MAXIMUM INSTANTANEOUS,
14.1 AT 20:40 MST ON JUL 09

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 39 18 N
LONG 113 45 42 W
DRAINAGE AREA, 1 910 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	6 000	JUL	17 000
FEB	4 000	AUG	4 580
MAR	8 300	SEP	3 740
APR	12 300	OCT	2 440
MAY	11 200	NOV	1 730
JUN	6 890	DEC	937

TOTAL DISCHARGE, 79 100 dam³

SUNDANCE CREEK NEAR BICKERDIKE - STATION NO. 07AF010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.315B	0.580B	0.935	4.75	1.55	0.725	0.680	0.289	---	---	1
2	---	---	0.313B	0.610B	0.944	5.33	1.54	0.704	0.624	0.294	---	---	2
3	---	---	0.320B	0.630B	0.916	5.10	1.13	0.680	0.533	0.293	---	---	3
4	---	---	0.321B	0.635B	0.870	4.34	4.17	0.671	0.481	0.308	---	---	4
5	---	---	0.318B	0.625B	0.819	3.96	4.82	0.657	0.445	0.343	---	---	5
6	---	---	0.316B	0.570B	0.781	4.30	4.44	0.630	0.413	0.360	---	---	6
7	---	---	0.319B	0.600B	0.725	4.46	4.02	0.573	0.388	0.373	---	---	7
8	---	---	0.316B	0.560B	0.696	3.98	4.02	0.557	0.365	0.393	---	---	8
9	---	---	0.306B	0.523B	0.690	3.34	3.60	0.533	0.351	0.444	---	---	9
10	---	---	0.311B	0.470B	0.686	2.76	2.90	0.515	0.342	0.488	---	---	10
11	---	---	0.296B	0.506B	0.682	2.59	2.37	0.503	0.330	0.542	---	---	11
12	---	---	0.292B	0.523B	0.714	3.19	2.01	0.479	0.370	0.547	---	---	12
13	---	---	0.304B	0.618B	0.800	4.78	1.82	0.485	0.385	0.524	---	---	13
14	---	---	0.309B	0.765B	0.957	11.0	1.65	0.483	0.378	0.500	---	---	14
15	---	---	0.314B	0.925B	0.983	11.5	1.47	0.473	0.354	0.492	---	---	15
16	---	---	0.310B	0.883B	0.944	9.17	1.44	0.629	0.355	0.481	---	---	16
17	---	---	0.301B	0.848B	0.983	7.55	1.45	0.777	0.439	0.484B	---	---	17
18	---	---	0.304B	0.768B	1.13	6.22	1.34	0.819	0.441	0.487B	---	---	18
19	---	---	0.336B	0.878B	1.13	5.63	1.26	0.706	0.432	0.486B	---	---	19
20	---	---	0.358B	0.918B	1.13	4.87	1.15	0.662	0.407	0.491B	---	---	20
21	---	---	0.351B	0.877B	1.62	4.09	1.06	0.574	0.382	0.490B	---	---	21
22	---	---	0.330B	0.912B	2.14	3.35	1.01	0.558	0.357	0.463B	---	---	22
23	---	---	0.305B	0.937	2.27	2.85	0.942	0.541	0.336	0.458B	---	---	23
24	---	---	0.309B	1.19	2.42	2.60	0.912	0.549	0.325	0.453B	---	---	24
25	---	---	0.325B	1.48	2.56	2.26	0.865	0.530	0.318	0.462B	---	---	25
26	---	---	0.350B	1.50	3.37	2.04	0.874	0.623	0.310	0.459B	---	---	26
27	---	0.344B	0.369B	1.25	3.77	1.89	0.853	0.813	0.297	0.481B	---	---	27
28	---	0.325B	0.390B	1.07	3.55	1.85	0.915	0.737	0.293	0.526B	---	---	28
29	---		0.420B	0.997	2.90	1.72	0.768	0.646	0.293	0.618B	---	---	29
30	---		0.460B	0.959	2.92	1.62	0.742	0.561	0.292	0.618B	---	---	30
31	---		0.530B		3.67		0.752	0.650		0.618B		---	31
TOTAL	---	---	10.418	24.607	48.435	133.09	59.743	19.043	11.716	14.265	---	---	TOTAL
MEAN	---	---	0.336	0.820	1.56	4.44	1.93	0.614	0.391	0.460	---	---	MEAN
MAX	---	---	0.530	1.50	3.77	11.5	4.82	0.819	0.680	0.618	---	---	MAX
MIN	---	---	0.292	0.470	0.682	1.62	0.742	0.473	0.292	0.289	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.31
MAXIMUM DAILY, 11.5 ON JUN 15
MINIMUM DAILY, 0.289 ON OCT 01
MAXIMUM INSTANTANEOUS,
13.5 AT 14:34 MST ON JUN 14

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 33 53 N
LONG 116 42 12 W
DRAINAGE AREA, 174 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	5 160
FEB	---	AUG	1 650
MAR	900	SEP	1 010
APR	2 130	OCT	1 230
MAY	4 180	NOV	---
JUN	11 500	DEC	---

TOTAL DISCHARGE, 27 800 dam³

SUNWAPTA RIVER AT ATHABASCA GLACIER - STATION NO. 07AA007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.145B	2.21 B	4.92	6.78	2.65	0.795	---	---	1
2	---	---	---	---	0.150B	2.08	3.95	5.71	2.35	0.575	---	---	2
3	---	---	---	---	0.155B	2.07	3.31	5.15	1.90	0.406	---	---	3
4	---	---	---	---	0.162B	1.91	3.23	5.53	1.73	0.574	---	---	4
5	---	---	---	---	0.170B	1.54	3.73	7.41	1.89	0.576	---	---	5
6	---	---	---	---	0.169B	1.36	4.60	9.14	2.20	0.356	---	---	6
7	---	---	---	---	0.166B	1.33	4.53	8.06	2.84	0.296	---	---	7
8	---	---	---	---	0.162B	1.34	4.67	7.59	3.19	0.277	---	---	8
9	---	---	---	---	0.160B	1.39	5.84	7.77	3.16	0.269	---	---	9
10	---	---	---	---	0.160B	1.45	5.98	7.85	3.34	0.249	---	---	10
11	---	---	---	---	0.158B	1.41	6.65	8.58	3.48	0.238	---	---	11
12	---	---	---	---	0.156B	1.18	8.91	9.67	2.94	0.230	---	---	12
13	---	---	---	---	0.152B	1.04	10.9	10.0	1.91	0.223	---	---	13
14	---	---	---	---	0.150B	0.958	7.39	10.4	2.05	0.211	---	---	14
15	---	---	---	---	0.149B	1.10	6.26	9.73	2.73	0.201	---	---	15
16	---	---	---	---	0.143B	1.39	8.44	9.22	3.43	0.190	---	---	16
17	---	---	---	---	0.142B	1.69	5.49	7.70	2.83	0.181	---	---	17
18	---	---	---	---	0.143B	2.12	4.13	6.28	1.88	0.173	---	---	18
19	---	---	---	---	0.145B	2.68	3.64	6.31	1.90	0.167	---	---	19
20	---	---	---	---	0.152B	2.93	3.31	6.88	1.48	0.160	---	---	20
21	---	---	---	---	0.170B	2.99	4.04	7.97	1.40	0.156	---	---	21
22	---	---	---	---	0.210B	3.73	5.05	7.44	1.54	0.146	---	---	22
23	---	---	---	---	0.235A	5.05	6.81	4.78	2.36	0.136	---	---	23
24	---	---	---	---	0.285	6.50	6.00	2.90	3.22	0.206	---	---	24
25	---	---	---	0.155B	0.358	6.09	5.33	2.06	3.88	0.321	---	---	25
26	---	---	---	0.150B	0.445	5.16	6.10	1.84	2.28	0.174	---	---	26
27	---	---	---	0.148B	0.560	4.91	7.06	2.70	1.38	0.149	---	---	27
28	---	---	---	0.143B	0.748	4.73	6.58	2.10	1.17	0.135	---	---	28
29	---	---	---	0.140B	0.947B	4.45	6.27	3.26	1.27	0.125	---	---	29
30	---		---	0.142B	1.75 B	4.57	7.28	4.89	1.01	0.113	---	---	30
31	---		---		2.21 B		7.13	4.48		0.108A		---	31
TOTAL	---	---	---	---	11.007	81.358	177.53	199.26	69.49	8.116	---	---	TOTAL
MEAN	---	---	---	---	0.355	2.71	5.73	6.43	2.32	0.262	---	---	MEAN
MAX	---	---	---	---	2.21	6.50	10.9	10.4	3.88	0.795	---	---	MAX
MIN	---	---	---	---	0.142	0.958	3.23	1.70	1.01	0.108	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.97
MAXIMUM DAILY, 10.9 ON JUL 13
MINIMUM DAILY, 0.108A ON OCT 31
MAXIMUM INSTANTANEOUS,
13.4 AT 18:07 MST ON AUG 14

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 13 00 N
LONG 117 13 57 W
DRAINAGE AREA, 29.8 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	15 300
FEB	---	AUG	17 200
MAR	---	SEP	6 000
APR	---	OCT	701
MAY	951	NOV	---
JUN	7 030	DEC	---

TOTAL DISCHARGE, 47 200 dam³

SWAN RIVER NEAR KINUSO - STATION NO. 07BJ001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	2.32B	0.913B	0.851B	5.28B	20.3	15.2	6.21	3.02A	16.3	1.35	2.66 B	0.944B	1
2	2.24B	0.767B	0.931B	6.03B	25.5	14.4	6.71	4.07A	11.6	1.40	2.56 B	0.864B	2
3	2.00B	0.698B	1.05 B	6.27B	25.7	13.6	17.8	3.06A	8.06	1.53	2.51 B	0.848B	3
4	1.89B	0.654B	1.17 B	5.73B	25.1	12.5	66.7	2.80E	5.93	1.67	1.97 B	0.864B	4
5	1.80B	0.620B	1.26 B	5.26B	26.4	13.6	41.2	2.60E	4.58	2.14	1.72 B	0.880B	5
6	1.82B	0.602B	1.34 B	5.10B	29.3	19.5	26.5	2.40E	4.13	2.53	1.93 B	0.880B	6
7	1.99B	0.626B	1.41 B	5.33B	28.2	17.2	23.0	2.30E	4.53	2.53	1.97 B	0.848B	7
8	1.88B	0.609B	1.42 B	5.60B	25.2	15.7	21.2	2.20E	4.18	2.26	2.17 B	0.816B	8
9	1.72B	0.616B	1.67 B	5.57B	23.6	15.1	16.2	2.00E	4.49	2.04	2.00 B	0.782B	9
10	1.66B	0.608B	1.54 B	5.53B	24.1	14.0	13.9	1.80E	4.66	2.48	1.89 B	0.758B	10
11	1.65B	0.654B	1.42 B	5.51B	21.0	25.6	11.4	1.70E	4.05	5.99	1.67 B	0.734B	11
12	1.49B	0.685B	1.26 B	5.66	18.7	144	9.37	1.60E	3.50	6.29	1.45 B	0.710B	12
13	1.41B	0.751B	1.16 B	5.82	17.1	160	8.04	1.40E	3.19	4.99	1.35 B	0.680B	13
14	1.44B	0.795B	1.14 B	5.40	16.3	113	6.61	1.20E	3.09	5.00	1.52 B	0.656B	14
15	1.44B	0.751B	1.31 B	7.15	15.2	68.0	5.05	1.05A	3.02	4.98	1.63 B	0.632B	15
16	1.45B	0.715B	1.73 B	7.49	15.7	45.9	4.27	1.40E	2.68	3.84	1.69 B	0.608B	16
17	1.48B	0.673B	1.89 B	8.87	15.3	33.1	6.41	1.70E	2.57	2.71	1.76 B	0.584B	17
18	1.44B	0.615B	1.72 B	11.9	14.7	25.2	9.13	1.90E	2.56	3.00	1.81 B	0.560B	18
19	1.40B	0.596B	2.09 B	25.7	14.4	20.2	9.77	2.05E	2.62	3.24	1.83 B	0.530B	19
20	1.37B	0.596B	2.33 B	37.9	18.6	16.5	8.77	2.30E	2.66	2.93	1.69 B	0.496B	20
21	1.37B	0.578B	2.07 B	42.0	24.1	14.0	7.35	2.15E	2.39	2.16	1.42 B	0.472B	21
22	1.41B	0.584B	1.78 B	42.9	27.0	11.9	6.13	1.95E	2.17	2.20	1.25 B	0.480B	22
23	1.38B	0.590B	1.60 B	38.8	27.4	9.95	5.36	1.68A	2.06	2.69	1.32 B	0.512B	23
24	1.44B	0.602B	1.56 B	37.6	24.4	8.36	4.71	7.48	1.91	2.39	1.24 B	0.518B	24
25	1.48B	0.638B	1.48 B	53.2	24.7	7.19	4.55	5.63	1.75	2.44	1.21 B	0.500B	25
26	1.43B	0.710B	1.40 B	47.7	26.1	6.53	4.53	4.39	1.59	3.03	1.11 B	0.518B	26
27	1.50B	0.764B	1.50 B	32.3	23.0	7.02	4.01	3.68	1.48	4.36	1.05 B	0.488B	27
28	1.48B	0.794B	2.02 B	24.1	19.8	7.14	5.65	3.20	1.41	3.72	1.02 B	0.464B	28
29	1.37B		2.59 B	19.5	17.5	5.82	6.28	2.74	1.37	3.90	1.01 B	0.444B	29
30	1.25B		3.58 B	17.3	16.2	5.45	4.87A	2.38	1.34	3.02	0.992B	0.428B	30
31	1.08B		4.80 B		15.4		3.58A	8.16		2.94B		0.412B	31
TOTAL	49.08	18.804	53.072	535.50	666.1	885.66	375.26	87.99	115.87	95.75	49.402	19.910	TOTAL
MEAN	1.58	0.672	1.71	17.9	21.5	29.5	12.1	2.84	3.86	3.09	1.65	0.642	MEAN
MAX	2.32	0.913	4.80	53.2	29.3	160	66.7	8.16	16.3	6.29	2.66	0.944	MAX
MIN	1.08	0.578	0.851	5.10	14.4	5.45	3.58	1.05	1.34	1.35	0.992	0.412	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 8.09
MAXIMUM DAILY, 160 ON JUN 13
MINIMUM DAILY, 0.412B ON DEC 31
MAXIMUM INSTANTANEOUS,
176 AT 15:30 MST ON JUN 13

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 19 00 N
LONG 115 24 30 W
DRAINAGE AREA, 1 900 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	4 240	JUL	32 400
FEB	1 620	AUG	7 600
MAR	4 590	SEP	10 000
APR	46 300	OCT	8 270
MAY	57 600	NOV	4 270
JUN	76 500	DEC	1 720

TOTAL DISCHARGE, 255 000 dam³

SWAN RIVER NEAR SWAN HILLS - STATION NO. 07BJ003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.260B	0.650B	2.36	2.18	0.897	0.545	1.93	0.368	0.672B	---	1
2	---	---	0.260B	0.804B	2.40	2.13	1.76	0.479	1.52	0.367	---	---	2
3	---	---	0.260B	1.19 B	2.51	2.06	9.02	0.445	1.23	0.421	---	---	3
4	---	---	0.260B	0.788B	2.71	2.03	6.57	0.426	1.06	0.469	---	---	4
5	---	---	0.260B	0.724B	3.56	4.59 A	2.95	0.398	0.887	0.500	---	---	5
6	---	---	0.255B	0.740B	4.25	3.43	2.28	0.360	0.799	0.461	---	---	6
7	---	---	0.255B	0.812B	3.05	2.79	2.83	0.331	0.711	0.448	---	---	7
8	---	---	0.252B	0.478B	2.44	2.70	2.09	0.310	0.663	0.476	---	---	8
9	---	---	0.245B	0.478B	2.54	2.42	1.74	0.306	0.676	0.621	---	---	9
10	---	---	0.235B	0.454B	2.37	2.33	1.50	0.301	0.619	1.10	---	---	10
11	---	---	0.220B	0.490B	2.25	7.17 A	1.29	0.291	0.554	1.05	---	---	11
12	---	---	0.210B	0.560B	2.12	10.4	1.12	0.282	0.529	0.933	---	---	12
13	---	---	0.210B	0.651B	2.06	11.2	0.997	0.265	0.524	0.908	---	---	13
14	---	---	0.210B	1.32 B	2.11	6.25	0.845	0.274	0.515	0.885	---	---	14
15	---	---	0.220B	2.00 B	2.20	3.49	0.776	0.300	0.479	0.724B	---	---	15
16	---	---	0.220B	2.08 B	2.14	2.46	0.762	0.349	0.468	0.740B	---	---	16
17	---	---	0.215B	1.64 B	2.10	2.05	0.962	0.426	0.543	0.740B	---	---	17
18	---	---	0.210B	2.33	2.09	1.80	1.25	0.431	0.541	0.693B	---	---	18
19	---	---	0.205B	3.16	2.19	1.63	1.18	0.460	0.505	0.672B	---	---	19
20	---	---	0.195B	3.70	3.05	1.47	1.07	0.495	0.468	0.740B	---	---	20
21	---	---	0.180B	4.04	3.68	1.34	0.927	0.403	0.450	0.708B	---	---	21
22	---	---	0.175B	3.63	3.24	1.22	0.813	0.777	0.441	0.651B	---	---	22
23	---	---	0.170B	3.26	3.57	1.12	0.723	1.16	0.424	0.630B	---	---	23
24	---	---	0.168B	3.63	3.10	1.01	0.668	0.909	0.385	0.630B	---	---	24
25	---	---	0.166B	4.17	3.17	0.947	0.621	0.826	0.387	0.658B	---	---	25
26	---	0.240B	0.166B	3.21	2.98	0.910	0.596	0.734	0.362	0.672B	---	---	26
27	---	0.250B	0.166B	2.36	2.51	0.905	1.26	0.728	0.365	0.686B	---	---	27
28	---	0.250B	0.170B	2.09	2.31	0.868	1.13	0.651	0.365	0.679B	---	---	28
29	---		0.220B	1.86	2.24	0.884	0.893	0.561	0.366	0.679B	---	---	29
30	---		0.300B	1.92	2.17	0.839	0.739	0.681	0.367	0.679B	---	---	30
31	---		0.500B		2.21		0.629	1.96		0.693B		---	31
TOTAL	---	---	7.062	55.219	83.68	84.623	50.888	16.864	19.133	20.681	---	---	TOTAL
MEAN	---	---	0.228	1.84	2.70	2.82	1.64	0.544	0.638	0.667	---	---	MEAN
MAX	---	---	0.500	4.17	5.24	11.2	9.02	1.96	1.93	1.10	---	---	MAX
MIN	---	---	0.166	0.454	2.06	0.839	0.596	0.265	0.362	0.367	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.38
MAXIMUM DAILY, 11.2 ON JUN 13
MINIMUM DAILY, 0.166B ON MAR 25
MAXIMUM INSTANTANEOUS,
12.7 AT 06:00 MST ON JUN 13

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 48 08 N
LONG 115 28 12 W
DRAINAGE AREA, 156 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	4 400
FEB	---	AUG	1 460
MAR	610	SEP	1 650
APR	4 770	OCT	1 790
MAY	7 230	NOV	---
JUN	7 310	DEC	---

TOTAL DISCHARGE, 29 200 dam³

SWIFTCURRENT CREEK AT SHERBURNE - STATION NO. 05AE033

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.062B	1.22	16.0	2.75	6.12	10.7	16.3	16.4	---	---	1
2	---	---	0.062B	1.22	15.8	2.78	11.6	10.7	16.2	16.4	---	---	2
3	---	---	0.062B	1.22	15.7	2.78	17.9	10.6	16.1	16.0	---	---	3
4	---	---	0.062B	1.22	15.6	2.78	21.2	10.6	16.0	15.7	---	---	4
5	---	---	0.062B	1.64	15.5	2.78	19.9	12.2	15.9	15.7	---	---	5
6	---	---	0.062B	2.29	18.3	2.78	18.7	13.2	15.7	16.0	---	---	6
7	---	---	0.065B	2.32	17.0	2.80	16.2	13.2	15.6	16.0	---	---	7
8	---	---	0.065B	2.38	15.4	2.83	11.7	13.1	15.5	15.9	---	---	8
9	---	---	0.065B	2.38	12.8	2.83	6.82	13.1	15.4	15.7	---	---	9
10	---	---	0.065B	2.38	9.43	2.83	4.11	13.1	15.3	6.23	---	---	10
11	---	---	0.065B	2.38	6.88	3.43	8.61	13.0	15.1	0.026	---	---	11
12	---	---	0.065B	2.41	6.80	10.6	13.2	13.0	15.0	0.021	---	---	12
13	---	---	0.651B	2.44	6.80	10.2	17.0	12.9	14.8	0.019	---	---	13
14	---	---	1.13 B	2.46	5.58	8.07	15.6	12.9	14.7	0.018	---	---	14
15	---	---	1.13	2.46	3.40	8.07	15.4	14.4	15.9	0.016	---	---	15
16	---	---	1.13	2.46	2.41	8.07	12.9	15.3	16.6	0.017	---	---	16
17	---	---	1.16	2.46	2.41	8.10	8.78	15.3	16.4	0.016	---	---	17
18	---	---	1.16	2.49	2.46	8.16	5.72	15.2	16.2	0.016	---	---	18
19	---	---	1.16	5.95	2.46	11.7	5.75	15.1	16.0	0.014	---	---	19
20	---	---	1.19	10.5	2.46	15.8	5.78	15.1	15.8	0.013	---	---	20
21	---	---	1.19	11.4	2.49	18.3	5.78	15.0	15.6	0.014	---	---	21
22	---	---	1.19	12.7	2.49	21.4	5.80	15.0	16.1	0.013	---	---	22
23	---	---	1.19	15.0	5.35	21.4	5.80	14.9	16.3	0.016	---	---	23
24	---	---	1.19	15.9	10.0	21.4	5.78	14.8	16.0	0.014	---	---	24
25	---	---	1.19	15.9	14.0	21.8	9.32	14.8	15.7	0.024	---	---	25
26	---	---	1.19	11.7	14.0	24.1	11.3	14.7	15.5	0.019	---	---	26
27	---	---	1.22	5.24	11.4	24.1	11.2	16.0	15.2	0.017	---	---	27
28	---	---	1.22	2.69	9.60	20.8	10.8	16.8	15.0	0.016	---	---	28
29	---	---	1.22	2.69	8.13	15.1	10.8	16.7	14.7	0.014	---	---	29
30	---		1.22	9.63	4.96	10.1	10.8	16.6	15.4	0.021E	---	---	30
31	---		1.22		2.72		10.7	16.4		0.014E		---	31
TOTAL	---	---	22.713	157.13	278.49	318.64	341.07	434.4	470.0	150.388	---	---	TOTAL
MEAN	---	---	0.733	5.24	8.98	10.6	11.0	14.0	15.7	4.85	---	---	MEAN
MAX	---	---	1.22	15.9	18.3	24.1	21.2	16.8	16.6	16.4	---	---	MAX
MIN	---	---	0.062	1.22	2.41	2.75	4.11	10.6	14.7	0.013	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 8.87
MAXIMUM DAILY, 24.1 ON JUN 26
MINIMUM DAILY, 0.013 ON OCT 20
MAXIMUM INSTANTANEOUS,
63.7 AT 16:00 MDT ON JUL 13

SUMMARY FOR THE MONTHS MAR TO OCT

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 48 49 49 N
LONG 113 30 59 W
DRAINAGE AREA, 168 km²

B - ICE CONDITIONS
E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	29 500
FEB	---	AUG	37 500
MAR	1 960	SEP	40 600
APR	13 600	OCT	13 000
MAY	24 100	NOV	---
JUN	27 500	DEC	---

TOTAL DISCHARGE, 188 000 dam³

SYLVAN LAKE AT SYLVAN LAKE - STATION NO. 05CC003

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	---	936.571	---	936.875	---	936.681	936.626	---	1
2	---	---	---	---	---	936.579	936.777	936.873	---	936.680	---	---	2
3	---	---	---	---	936.505	---	---	936.874	---	936.680	---	---	3
4	---	---	---	---	936.501	936.642	---	936.869	---	936.683	---	---	4
5	---	---	---	---	936.502	936.650	---	936.867	---	936.683	---	---	5
6	---	---	---	---	936.505	---	---	---	---	936.684	---	---	6
7	---	---	---	---	---	936.647	---	936.869	---	936.686	---	---	7
8	---	---	---	---	---	936.652	936.904	---	---	936.686	---	---	8
9	---	---	---	---	936.507	936.658	936.907	936.866	---	936.685	---	---	9
10	---	---	---	---	936.511	936.659	936.912	936.866	---	936.685	---	---	10
11	---	---	---	936.470	936.513	936.668	---	936.862	---	936.685	---	---	11
12	---	---	---	---	936.509	---	---	---	---	936.684	---	---	12
13	---	---	---	---	---	936.745	936.914	---	---	936.684	---	---	13
14	---	---	---	---	936.511	936.749	936.917	---	---	936.682	---	---	14
15	---	---	---	---	936.512	936.758	936.918	---	---	936.677	---	---	15
16	---	---	---	---	936.514	936.764	---	---	---	936.673	---	---	16
17	---	---	---	---	---	936.762	936.910	---	---	936.669	---	---	17
18	---	---	---	---	936.520	---	936.904	---	---	936.664	---	---	18
19	---	---	936.269	---	936.515	936.769	936.900	---	---	936.657	---	---	19
20	---	---	---	---	936.513	936.775	---	---	---	936.653	---	---	20
21	---	---	---	---	---	936.779	936.889	---	---	936.650	---	---	21
22	---	936.259	---	---	936.510	936.777	936.889	---	---	936.647	---	---	22
23	---	---	---	---	936.516	---	936.885	---	---	936.645	---	---	23
24	---	---	---	---	---	---	936.885	---	---	936.644	---	---	24
25	---	---	---	---	936.517	---	---	---	---	936.640	---	---	25
26	---	---	---	---	936.527	---	936.882	---	---	936.637	---	---	26
27	---	---	---	---	936.535	---	---	---	936.723	936.634	---	---	27
28	---	---	---	---	---	---	936.878	---	---	936.632	---	---	28
29	---		---	936.508	936.552	---	936.878	---	---	936.630	---	---	29
30	---		---	---	936.567	---	---	936.823	936.681	936.628	---	---	30
31	---		---		---		---	---		936.630		---	31
MEAN	---	---	---	---	---	---	---	---	---	936.664	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	936.686	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	936.628	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 52 18 44 N
LONG 114 06 08 W

A - MANUAL GAUGE
E - ESTIMATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

DRAINAGE AREA,
151 km²

TEEPEE CREEK NEAR LA CRETE - STATION NO. 07JD004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	OB	0 B	1.25	0.150	0.001	0	0	0	---	---	1
2	---	---	OB	0 B	1.10	0.129	0.005	0	0	0	---	---	2
3	---	---	OB	0 B	0.952	0.113	0.027	0	0	0	---	---	3
4	---	---	OB	0 B	0.839	0.132	0.024	0	0	0	---	---	4
5	---	---	OB	0.001B	0.731	0.095	0.022	0	0	0	---	---	5
6	---	---	OB	0.069B	0.650	0.094	0.021	0	0	0	---	---	6
7	---	---	OB	0.031B	0.622	0.072	0.016	0	0	0	---	---	7
8	---	---	OB	0.022B	0.596	0.054	0.012	0	0	0	---	---	8
9	---	---	OB	0.020B	0.517	0.051	0.009	0	0	0	---	---	9
10	---	---	OB	0.017B	0.493	0.048	0.006	0	0	0	---	---	10
11	---	---	OB	0.159B	0.519	0.048	0.004	0	0	0	---	---	11
12	---	---	OB	0.189B	0.573	0.119	0.002	0	0	0	---	---	12
13	---	---	OB	0.219B	0.563	0.286	0.002	0	0	0	---	---	13
14	---	---	OB	0.258B	0.530	0.251	0.001	0	0	0	---	---	14
15	---	---	OB	0.273B	0.481	0.187	0	0	0	0	---	---	15
16	---	---	OB	0.319B	0.428	0.123	0	0	0	0	---	---	16
17	---	---	OB	0.534B	0.409	0.076	0	0	0	0	---	---	17
18	---	---	OB	1.53 B	0.463	0.079	0	0	0	0	---	---	18
19	---	---	OB	6.53	0.482	0.065	0	0	0	0	---	---	19
20	---	---	OB	5.35	0.393	0.040	0	0	0	0	---	---	20
21	---	---	OB	2.33	0.394	0.035	0	0	0	0	---	---	21
22	---	OB	OB	1.53	0.377	0.018	0	0	0	0	---	---	22
23	---	OB	OB	1.40	0.277	0.012	0	0	0	0	---	---	23
24	---	OB	OB	1.29	0.298	0.005	0	0	0	0	---	---	24
25	---	OB	OB	1.24	0.289	0.004	0	0	0	0	---	---	25
26	---	OB	OB	1.21	0.270	0.004	0	0	0	0	---	---	26
27	---	OB	OB	1.11	0.271	0.001	0	0	0	0	---	---	27
28	---	OB	OB	1.11	0.238	0.001	0	0	0	0	---	---	28
29	---		OB	1.17	0.196	0	0	0	0	0	---	---	29
30	---		OB	1.27	0.174	0	0	0	0	0	---	---	30
31	---		OB		0.171		0	0		0		---	31
TOTAL	---	---	0	29.181	15.546	2.292	0.152	0	0	0	---	---	TOTAL
MEAN	---	---	0	0.973	0.502	0.076	0.005	0	0	0	---	---	MEAN
MAX	---	---	0	6.53	1.25	0.286	0.027	0	0	0	---	---	MAX
MIN	---	---	0	0	0.171	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.193
MAXIMUM DAILY, 6.53 ON APR 19
MINIMUM DAILY, OB ON MAR 01
MAXIMUM INSTANTANEOUS,
9.72 AT 22:00 MST ON APR 19

TYPE OF GAUGE - RECORDING
LOCATION - LAT 58 08 16 N
LONG 116 14 55 W
DRAINAGE AREA, 136 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	13.1
FEB	---	AUG	0
MAR	0	SEP	0
APR	2 520	OCT	0
MAY	1 340	NOV	---
JUN	198	DEC	---

TOTAL DISCHARGE, 4 070 dam³

THREEHILLS CREEK BELOW RAY CREEK - STATION NO. 05CE010

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.74	0.136	0.647	0.466	0.041	0.028	0.007	0.023A	---	1
2	---	---	0 B	1.39	0.125	1.26	0.431	0.032	0.005	0.009	---	---	2
3	---	---	0 B	1.08	0.152	1.75	0.661	0.034	0.004	0.014	---	---	3
4	---	---	0 B	0.827	0.135	2.43	1.43	0.025	0.004	0.011	---	---	4
5	---	---	0 B	0.674	0.097	10.7	1.49	0.020	0.005	0.014	---	---	5
6	---	---	0 B	0.538	0.092	7.07	0.807	0.013	0.013	0.015	---	---	6
7	---	---	0.292B	0.448	0.111	3.70	0.557	0.012	0.013	0.018	---	---	7
8	---	---	0.475B	0.433	0.108	2.41	0.413	0.005	0.011	0.021	---	---	8
9	---	---	0.640B	0.381	0.120	1.58	0.321	0.003	0.005	0.021	---	---	9
10	---	---	0.543B	0.333	0.099	1.20	0.253	0.001	0.007	0.021	---	---	10
11	---	---	0.464B	0.298	0.086	1.83	0.185	0.001	0.003	0.022	---	---	11
12	---	---	0.324B	0.271	0.093	7.18	0.133	0.001	0.006	0.021	---	---	12
13	---	---	0.215B	0.277	0.082	9.79	0.088	0.001	0.006	0.021	---	---	13
14	---	---	0.253B	0.271	0.100	6.46	0.055	0.001	0.007	0.019	---	---	14
15	---	---	0.330B	0.299	0.101	4.01	0.035	0.001	0.012	0.019	---	---	15
16	---	---	0.350B	0.307	0.073	2.55	0.033	0.001	0.009	0.017	---	---	16
17	---	---	0.345B	0.281	0.089	1.90	0.033	0.015	0.010	0.017	---	---	17
18	---	---	0.473B	0.248	0.191	1.43	0.031	0.029	0.011	0.019	---	---	18
19	---	---	0.973B	0.212	0.184	1.21	0.029	0.038	0.011	0.051	---	---	19
20	---	---	1.66 B	0.167	0.182	1.06	0.031	0.048	0.009	0.025	---	---	20
21	---	---	1.40 B	0.153	0.284	0.942	0.046	0.054	0.010	0.021	---	---	21
22	---	---	0.889B	0.131	0.256	0.824	0.044	0.046	0.007	0.020	---	---	22
23	---	OB	0.496B	0.201	0.264	0.730	0.035	0.069	0.005	0.020	---	---	23
24	---	OB	0.310B	0.299	0.287	0.653	0.037	0.069	0.005	0.020	---	---	24
25	---	OB	0.261B	0.340	0.362	0.593	0.058	0.056	0.005	0.021	---	---	25
26	---	OB	0.262B	0.258	0.555	0.533	0.072	0.054	0.008	0.023	---	---	26
27	---	OB	0.480B	0.201	0.533	0.477	0.053	0.054	0.003	0.023	---	---	27
28	---	OB	1.13 B	0.173	0.454	0.516	0.074	0.054	0.003	0.025	---	---	28
29	---		2.23 B	0.153	0.414	0.560	0.072	0.049	0.004	0.024	---	---	29
30	---		2.58 B	0.134	0.445	0.498	0.065	0.040	0.006	0.023	---	---	30
31	---		2.73 B		0.464		0.042	0.038		0.022		---	31
TOTAL	---	---	20.105	12.518	6.674	76.493	8.080	0.905	0.235	0.624	---	---	TOTAL
MEAN	---	---	0.649	0.417	0.215	2.55	0.261	0.029	0.008	0.020	---	---	MEAN
MAX	---	---	2.73	1.74	0.555	10.7	1.49	0.069	0.028	0.051	---	---	MAX
MIN	---	---	0	0.131	0.073	0.477	0.029	0.001	0.003	0.007	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.513
MAXIMUM DAILY, 10.7 ON JUN 05
MINIMUM DAILY, OB ON MAR 01
MAXIMUM INSTANTANEOUS,
14.4 AT 14:45 MST ON JUN 05

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 59 10 N
LONG 113 34 04 W
DRAINAGE AREA, 197 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	698
FEB	---	AUG	78.2
MAR	1 740	SEP	20.3
APR	1 080	OCT	53.9
MAY	577	NOV	---
JUN	6 610	DEC	---

TOTAL DISCHARGE, 10 900 dam³

THREEHILLS CREEK NEAR CARBON - STATION NO. 05CE007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.166B	0.848B	0.434	0.511	0.666	0.085	0.064	0.006	---	---	1
2	---	---	0.060B	0.914	0.443	0.596	0.611	0.079	0.051	0.005	---	---	2
3	---	---	0.535B	0.877	0.454	0.596	0.715	0.073	0.048	0.004	---	---	3
4	---	---	0.383B	0.747	0.454	0.654	0.556	0.061	0.062	0.005	---	---	4
5	---	---	0.605B	0.752	0.397	2.27	0.585	0.052	0.052	0.008	---	---	5
6	---	---	0.829B	0.740	0.341	3.93	1.58	0.045	0.035	0.010	---	---	6
7	---	---	0.758B	1.08	0.318	4.79	2.45	0.042	0.027	0.014	---	---	7
8	---	---	1.30 B	1.29	0.310	4.89	1.48	0.107	0.024	0.020	---	---	8
9	---	---	0.729B	1.16	0.299	7.19	0.930	0.183	0.022	0.023	---	---	9
10	---	---	0.925B	0.946	0.286	8.20	1.13	0.174	0.035	0.023	---	---	10
11	---	---	0.965B	0.893	0.260	6.85	0.918	0.173	0.034	0.022	---	---	11
12	---	---	0.167B	0.867	0.279	5.44	0.718	0.160	0.025	0.027	---	---	12
13	---	---	0.260B	0.775	0.277	7.44	0.596	0.155	0.022	0.098	---	---	13
14	---	---	0.393B	0.715	0.258	9.66	0.495	0.156	0.015	0.205	---	---	14
15	---	---	0.369B	0.662	0.229	9.54	0.420	0.148	0.011	0.098	---	---	15
16	---	---	1.70 B	0.623	0.203	9.66	0.367	0.142	0.011	0.065	---	---	16
17	---	---	1.80 B	0.587	0.189	11.2	0.332	0.190	0.008	0.048	---	---	17
18	---	---	1.63 B	0.559	0.183	9.90	0.308	0.444	0.006	0.040	---	---	18
19	---	---	2.45 B	0.530	0.193	6.89	0.310	0.499	0.006	0.035	---	---	19
20	---	---	2.61 B	0.507	0.182	4.93	0.259	0.337	0.005	0.032	---	---	20
21	---	0.016B	1.81 B	0.494	0.272	3.58	0.220	0.223	0.003	0.030	---	---	21
22	---	0.015B	1.56 B	0.460	0.252	2.79	0.190	0.168	0.004	0.028	---	---	22
23	---	0.015B	1.09 B	0.458	0.223	2.32	0.198	0.166	0.004	0.028	---	---	23
24	---	0.015B	0.850B	0.438	0.207	1.94	0.276	0.144	0.003	0.027	---	---	24
25	---	0.011B	0.760B	0.406	0.230	1.63	0.247	0.116	0.003	0.027	---	---	25
26	---	0.010B	0.400B	0.401	0.293	1.36	0.230	0.120	0.011	0.027	---	---	26
27	---	0.019B	0.232B	0.374	0.340	1.14	0.176	0.096	0.009	0.155	---	---	27
28	---	0.045B	0.318B	0.408	0.338	1.01	0.145	0.077	0.006	0.307	---	---	28
29	---		0.421B	0.410	0.380	0.873	0.125	0.068	0.006	0.322	---	---	29
30	---		0.668B	0.407	0.470	0.757	0.102	0.067	0.006	0.280A	---	---	30
31	---		0.685B		0.529		0.085	0.072		0.280E		---	31
TOTAL	---	---	27.436	20.328	9.521	132.537	17.420	4.630	0.618	2.339	---	---	TOTAL
MEAN	---	---	0.885	0.678	0.307	4.42	0.562	0.149	0.021	0.076	---	---	MEAN
MAX	---	---	2.61	1.29	0.529	11.2	2.45	0.499	0.064	0.322	---	---	MAX
MIN	---	---	0.068	0.374	0.182	0.511	0.085	0.042	0.003	0.004	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.877
MAXIMUM DAILY, 11.2 ON JUN 17
MINIMUM DAILY, 0.003 ON SEP 21
MAXIMUM INSTANTANEOUS,
13.0 AT 10:11 MST ON JUN 17

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 33 53 N
LONG 113 04 18 W
DRAINAGE AREA, 1 070 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1971

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 510
FEB	---	AUG	400
MAR	2 370	SEP	53.4
APR	1 760	OCT	202
MAY	823	NOV	---
JUN	11 500	DEC	---

TOTAL DISCHARGE, 18 500 dam³

THREEPOINT CREEK NEAR MILLARVILLE - STATION NO. 05BL013

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.021B	1.07 B	1.62	18.1	1.82	2.70	1.66	0.380E	0.444A	---	1
2	---	---	0.023B	1.27 B	1.95	38.2	1.71	3.36	1.54	0.380E	---	---	2
3	---	---	0.025B	1.68	2.82	35.2	1.98	3.64	1.44	0.390E	---	---	3
4	---	---	0.045B	1.45	3.35	24.5	1.79	3.00	1.35 A	0.400E	---	---	4
5	---	---	0.419B	0.921B	3.91	17.2	1.66	2.47	1.20 E	0.415E	---	---	5
6	---	---	0.490B	0.887B	4.40	13.2	1.51	2.11	1.10 E	0.440E	---	---	6
7	---	---	0.530B	1.01 B	4.23	10.7	1.79	1.81	1.07 E	0.410E	---	---	7
8	---	---	0.540B	1.12 B	3.77	8.71	2.30	1.58	1.02 E	0.400E	---	---	8
9	---	---	0.530B	0.939B	3.27	7.08	1.79	1.45	0.920E	0.470E	---	---	9
10	---	---	0.510B	0.709B	3.23	6.26	1.53	1.31	0.820E	0.542A	---	---	10
11	---	---	0.490B	0.671B	3.44	5.91	1.35	1.19	0.750E	0.580E	---	---	11
12	---	---	0.459B	0.717	3.67	5.07	1.21	1.19	0.708A	0.600E	---	---	12
13	---	---	0.337B	0.688	3.74	5.21	1.12	1.27	0.690E	0.540E	---	---	13
14	---	---	0.246B	1.03	3.88	6.23	1.01	1.13	0.680E	0.500E	---	---	14
15	---	---	0.238B	1.20	3.68	5.34	0.956	0.992	0.880E	0.460E	---	---	15
16	---	---	0.241B	1.37	3.44	4.65	0.888	0.974	0.900E	0.480E	---	---	16
17	---	---	0.294B	1.24	3.27	5.67	0.888	1.08	0.800E	0.470E	---	---	17
18	---	---	0.385B	1.59	3.33	4.66	0.941	3.81	0.620E	0.460E	---	---	18
19	---	---	0.534B	1.83	3.39	4.12	1.24	4.39	0.600E	0.500E	---	---	19
20	---	0.018B	0.612B	2.19	3.40	3.79	1.42	3.53	0.610E	0.540E	---	---	20
21	---	0.016B	0.522B	2.69	3.60	3.88	1.22	2.96	0.635E	0.470E	---	---	21
22	---	0.017B	0.396B	2.64	3.54	3.37	1.04	2.57	0.700E	0.420E	---	---	22
23	---	0.019B	0.308B	2.51	3.52	3.03	0.924	2.30	0.750E	0.500E	---	---	23
24	---	0.016B	0.318B	2.37	3.81	2.83	0.953	2.38	0.600E	0.390E	---	---	24
25	---	0.018B	0.298B	2.10	26.2	2.91	1.17	2.56	0.500E	0.405E	---	---	25
26	---	0.018B	0.256B	2.02	51.3	2.54	2.61	3.03	0.440E	0.435E	---	---	26
27	---	0.019B	0.230B	1.88	35.8	2.28	3.35	2.82	0.405E	0.440E	---	---	27
28	---	0.021B	0.294B	1.68	24.1	2.19	3.89	2.51	0.390E	0.465E	---	---	28
29	---		0.453B	1.46	28.1	1.99	3.78	2.28	0.385E	0.430E	---	---	29
30	---		0.818B	1.37	27.6	1.93	3.23	2.06	0.380E	0.400E	---	---	30
31	---		1.23 B		22.1		2.87	1.85		0.440E		---	31
TOTAL	---	---	12.092	44.202	297.46	256.75	53.940	70.306	24.543	14.152	---	---	TOTAL
MEAN	---	---	0.390	1.47	9.60	8.56	1.74	2.27	0.818	0.457	---	---	MEAN
MAX	---	---	1.23	2.69	51.3	38.2	3.89	4.39	1.66	0.600	---	---	MAX
MIN	---	---	0.021	0.671	1.62	1.93	0.888	0.974	0.380	0.380	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.16
MAXIMUM DAILY, 51.3 ON MAY 26
MINIMUM DAILY, 0.021B ON MAR 01
MAXIMUM INSTANTANEOUS,
56.3 AT 09:15 MST ON MAY 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 46 14 N
LONG 114 16 39 W
DRAINAGE AREA, 507 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	4 660
FEB	---	AUG	6 070
MAR	1 040	SEP	2 120
APR	3 820	OCT	1 220
MAY	25 700	NOV	---
JUN	22 200	DEC	---

TOTAL DISCHARGE, 66 800 dam³

TIMDASTOLL CREEK NEAR MARKERVILLE - STATION NO. 05CC012

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	0 B	6.36	0.048	0.089	0.078	0.015	0.014	0.012	0.036A	---
2	---	---	0 B	7.20	0.046	0.106	0.139	0.008	0.014	0.011	---	---
3	---	---	0 B	6.72	0.035	0.123	2.92	0.009	0.013	0.010	---	---
4	---	---	0 B	5.13	0.032	0.747	4.77	0.016	0.013	0.023	---	---
5	---	---	0 B	3.27	0.028	4.06	4.18	0.010	0.012	0.031	---	---
6	---	---	0 B	1.66	0.024	5.25	2.57	0.011	0.010	0.037	---	---
7	---	---	0 B	0.841	0.020	4.47	1.78	0.011	0.009	0.042	---	---
8	---	---	0 B	0.634	0.019	3.08	1.32	0.009	0.010	0.044	---	---
9	---	---	0 B	0.437	0.016	1.67	0.793	0.009	0.010	0.044	---	---
10	---	---	0 B	0.358	0.018	0.988	0.529	0.010	0.010	0.044	---	---
11	---	---	0 B	0.302A	0.018	1.60	0.302	0.011	0.010	0.042	---	---
12	---	---	0 B	0.229	0.015	5.36	0.168	0.013	0.010	0.041	---	---
13	---	---	0 B	0.287	0.013	9.77	0.106	0.013	0.012	0.039	---	---
14	---	---	0 B	1.39	0.014	10.3	0.070	0.010	0.014	0.038	---	---
15	---	---	0 B	1.10	0.013	9.20	0.059	0.009	0.013	0.037	---	---
16	---	---	0 B	0.594	0.012	7.51	0.055	0.013	0.015	0.037	---	---
17	---	---	0 B	0.344	0.010	5.14	0.048	0.017	0.014	0.034	---	---
18	---	---	0 B	0.218	0.011	2.49	0.047	0.025	0.013	0.035	---	---
19	---	---	0 B	0.164	0.012	1.04	0.051	0.032	0.010	0.036	---	---
20	---	---	0 B	0.117	0.010	0.595	0.044	0.035	0.011	0.035	---	---
21	---	---	0 B	0.095	0.016	0.401	0.039	0.031	0.012	0.036	---	---
22	---	OB	0 B	0.065	0.024	0.261	0.031	0.029	0.014	0.034	---	---
23	---	OB	0 B	0.070	0.034	0.177	0.023	0.035	0.016	0.033	---	---
24	---	OB	0 B	0.106	0.044	0.098	0.032	0.032	0.015	0.035	---	---
25	---	OB	0 B	0.095	0.099	0.113	0.028	0.033	0.014	0.037	---	---
26	---	OB	0 B	0.072	0.192	0.153	0.059	0.039	0.013	0.039	---	---
27	---	OB	0 B	0.063	0.154	0.080	0.089	0.035	0.013	0.039	---	---
28	---	OB	0 B	0.059	0.109	0.062	0.037	0.031	0.011	0.038	---	---
29	---		0.190B	0.054	0.087	0.058	0.027	0.029	0.011	0.037	---	---
30	---		1.10 B	0.054	0.088	0.055	0.021	0.024	0.011	0.036	---	---
31	---		3.80 B		0.094		0.016	0.018		0.037	---	---
TOTAL	---	---	5.090	38.088	1.355	75.046	20.431	0.622	0.367	1.083	---	---
MEAN	---	---	0.164	1.27	0.044	2.50	0.659	0.020	0.012	0.035	---	---
MAX	---	---	3.80	7.20	0.192	10.3	4.77	0.039	0.016	0.044	---	---
MIN	---	---	0	0.054	0.010	0.055	0.016	0.008	0.009	0.012	---	---

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.580
MAXIMUM DAILY, 10.3 ON JUN 14
MINIMUM DAILY, OB ON MAR 01
MAXIMUM INSTANTANEOUS, 10.5 AT 17:16 MST ON JUN 13

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 06 52 N
LONG 114 07 10 W
DRAINAGE AREA, 142 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL 1	770
FEB	---	AUG	53.7
MAR	440	SEP	31.7
APR 3	290	OCT	93.6
MAY	117	NOV	---
JUN 6	480	DEC	---

TOTAL DISCHARGE, 12 300 dam³

TODD CREEK AT ELTON'S RANCH - STATION NO. 05AA006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	0.457	0.823	3.48	0.587	0.392	0.157	0.083	0.171	---
2	---	---	---	0.610	1.25	3.30	0.594	0.378	0.150	0.087	0.150B	---
3	---	---	---	0.874	1.39	3.18	0.609	0.381	0.148	0.101	0.140B	---
4	---	---	---	0.590	1.07	2.85	0.559	0.349	0.148	0.105	0.150B	---
5	---	---	---	0.387	0.924	2.55	0.562	0.312	0.139	0.367	0.125B	---
6	---	---	---	0.439	0.843	2.29	0.549	0.276	0.124	0.401	0.103B	---
7	---	---	---	0.420	0.740	2.14	0.543	0.243	0.115	0.222	---	---
8	---	---	---	0.460B	0.704	2.01	0.594	0.230	0.098	0.210	---	---
9	---	---	---	0.360B	0.778	1.80	0.499	0.226	0.103	0.230	---	---
10	---	---	---	0.300B	0.788	1.77	0.461	0.225	0.113	0.310	---	---
11	---	---	---	0.370B	0.917	1.79	0.427	0.219	0.107	0.294	---	---
12	---	---	---	0.430B	0.840	1.68	0.400	0.222	0.100	0.240	---	---
13	---	---	---	0.440	0.929	1.54	0.373	0.210	0.143	0.288	---	---
14	---	---	---	0.526	0.920	1.61	0.341	0.205	0.194	0.240	---	---
15	---	---	---	0.618	0.826	1.45	0.333	0.204	0.141	0.219	---	---
16	---	---	---	0.598	0.817	1.35	0.329	0.193	0.131	0.209	---	---
17	---	---	---	0.525	0.772	1.44	0.320	0.211	0.120	0.194	---	---
18	---	---	---	0.521	0.754	1.25	0.323	0.350	0.115	0.214	---	---
19	---	---	---	0.614	1.07	1.14	0.365	0.364	0.117	0.199	---	---
20	---	---	---	0.674	1.36	1.15	0.410	0.361	0.120	0.169	---	---
21	---	---	---	0.651	1.11	1.18	0.379	0.284	0.117	0.189	---	---
22	---	---	---	0.631	0.881	1.03	0.336	0.233	0.116	0.169	---	---
23	---	---	---	0.583	0.805	0.934	0.459	0.196	0.110	0.161	---	---
24	---	---	---	0.539	0.900	0.874	0.479	0.260	0.099	0.161	---	---
25	---	---	---	0.496	4.12	0.830	0.772	0.427	0.088	0.158	---	---
26	---	---	---	0.500	3.87	0.784	1.96	0.442	0.081	0.194	---	---
27	---	---	---	0.613	3.71	0.739	0.819	0.333	0.083	0.248	---	---
28	---	---	---	0.778	4.04	0.704	0.729	0.256	0.087	0.202	---	---
29	---	---	0.490A	0.589	4.72	0.687	0.531	0.201	0.088	0.203	---	---
30	---		0.460	0.597	4.40	0.633	0.456	0.176	0.080	0.192	---	---
31	---		0.558		3.66		0.398	0.159		0.180	---	---
TOTAL	---	---	---	16.190	49.731	48.245	16.496	8.518	3.532	6.439	---	---
MEAN	---	---	---	0.540	1.60	1.61	0.532	0.275	0.118	0.208	---	---
MAX	---	---	---	0.874	4.72	3.48	1.96	0.442	0.194	0.401	---	---
MIN	---	---	---	0.300	0.704	0.633	0.320	0.159	0.080	0.083	---	---

SUMMARY FOR THE MONTHS APR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.697
MAXIMUM DAILY, 4.72 ON MAY 29
MINIMUM DAILY, 0.080 ON SEP 30
MAXIMUM INSTANTANEOUS, 6.00 AT 21:10 MST ON MAY 29

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 39 24 N
LONG 114 07 32 W
DRAINAGE AREA, 144 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL 1	430
FEB	---	AUG	736
MAR	---	SEP	305
APR 1	400	OCT	556
MAY 4	300	NOV	---
JUN 4	170	DEC	---

TOTAL DISCHARGE, 12 900 dam³

TODD CREEK NEAR HIGHWAY NO.22 - STATION NO. 05AA909

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.650E	0.868	3.61	0.609	0.345	0.172	0.147	---	---	1
2	---	---	---	0.610A	1.33	3.28	0.624	0.325	0.160	0.161	---	---	2
3	---	---	---	0.550E	1.15	2.88	0.630	0.318	0.162	0.150	---	---	3
4	---	---	---	0.500E	0.990	2.58	0.588	0.288	0.171	0.248	---	---	4
5	---	---	---	0.450E	0.894	2.25	0.581	0.295	0.165	0.473	---	---	5
6	---	---	---	0.408	0.816	2.05	0.564	0.340	0.161	0.304	---	---	6
7	---	---	---	0.403	0.749	1.91	0.597	0.322	0.143	0.266	---	---	7
8	---	---	---	0.511	0.773	1.77	0.571	0.305	0.143	0.249	---	---	8
9	---	---	---	0.359	0.805	1.67	0.515	0.308	0.154	0.316	---	---	9
10	---	---	---	0.346	0.861	1.60	0.489	0.299	0.150	0.334	---	---	10
11	---	---	---	0.379	0.948	1.55	0.458	0.293	0.144	0.283	---	---	11
12	---	---	---	0.373	0.883	1.46	0.440	0.285	0.143	0.275	---	---	12
13	---	---	---	0.434	1.05	1.42	0.415	0.272	0.245	0.300	---	---	13
14	---	---	---	0.543	0.929	1.43	0.398	0.270	0.185	0.275	---	---	14
15	---	---	---	0.559	0.894	1.28	0.401	0.264	0.165	0.228	---	---	15
16	---	---	---	0.560	0.913	1.28	0.394	0.265	0.164	0.229	---	---	16
17	---	---	---	0.478	0.822	1.24	0.392	0.294	0.157	0.264	---	---	17
18	---	---	---	0.527	0.875	1.10	0.394	0.323	0.162	0.225	---	---	18
19	---	---	---	0.603	1.26	1.04	0.458	0.330	0.163	0.232	---	---	19
20	---	---	---	0.628	1.43	1.12	0.430	0.275	0.167	0.258	---	---	20
21	---	---	---	0.609	1.03	1.06	0.409	0.231	0.168	0.200	---	---	21
22	---	---	---	0.601	0.908	0.962	0.423	0.197	0.163	0.194	---	---	22
23	---	---	---	0.561	0.898	0.909	0.501	0.203	0.157	0.207	---	---	23
24	---	---	---	0.525	1.16	0.861	0.548	0.331	0.142	0.183	---	---	24
25	---	---	---	0.474	5.84	0.821	1.34	0.337	0.139	0.205	---	---	25
26	---	---	---	0.511	3.47	0.783	1.28	0.347	0.138	0.270	---	---	26
27	---	---	---	0.648	3.05	0.750	0.645	0.276	0.139	0.223	---	---	27
28	---	---	---	0.680	2.95	0.722	0.520	0.224	0.145	0.222	---	---	28
29	---	---	---	0.632	6.09	0.681	0.454	0.194	0.144	0.215	---	---	29
30	---		---	0.605	4.36	0.644	0.382	0.180	0.142	0.193	---	---	30
31	---		---		3.59		0.353	0.180		0.270		---	31
TOTAL	---	---	---	15.717	52.586	44.713	16.803	8.714	4.753	7.599	---	---	TOTAL
MEAN	---	---	---	0.524	1.70	1.49	0.542	0.281	0.158	0.245	---	---	MEAN
MAX	---	---	---	0.680	6.09	3.61	1.34	0.347	0.245	0.473	---	---	MAX
MIN	---	---	---	0.346	0.749	0.644	0.353	0.180	0.138	0.147	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.735
MAXIMUM DAILY, 6.09 ON MAY 29
MINIMUM DAILY, 0.138 ON SEP 26
MAXIMUM INSTANTANEOUS,
8.66 AT 11:40 MST ON MAY 29

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 45 40 N
LONG 114 14 00 W
DRAINAGE AREA, 73.8 km²

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 450
FEB	---	AUG	753
MAR	---	SEP	411
APR	15.717	OCT	657
MAY	4 540	NOV	---
JUN	3 860	DEC	---

TOTAL DISCHARGE, 11 700 dam³

TOMAHAWK CREEK NEAR TOMAHAWK - STATION NO. 05DE009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.100B	2.02 B	0.329	0.610	0.200	0.049	0.074	0.009	---	---	1
2	---	---	0.150B	1.59 B	0.322	0.539	0.274	0.083	0.066	0.012	---	---	2
3	---	---	0.200B	1.22 B	0.313	0.483	12.8	0.075	0.058	0.011	---	---	3
4	---	---	0.250B	0.777B	0.308	1.13	13.0	0.060	0.028	0.022	---	---	4
5	---	---	0.300B	0.481B	0.296	1.79	5.27	0.047	0.016	0.061	---	---	5
6	---	---	0.380B	0.379B	0.290	1.35	4.21	0.055	0.017	0.052	---	---	6
7	---	---	0.345B	0.303B	0.293	1.08	3.39	0.038	0.014	0.037	---	---	7
8	---	---	0.308B	0.247B	0.377	0.804	1.95	0.024	0.009	0.035	---	---	8
9	---	---	0.205B	0.191B	0.403	0.618	1.25	0.024	0.007	0.045	---	---	9
10	---	---	0.178B	0.176B	0.353	0.510	0.872	0.015	0.011	0.044	---	---	10
11	---	---	0.170B	0.166B	0.341	0.757	0.598	0.015	0.009	0.050	---	---	11
12	---	---	0.160B	0.236B	0.314	1.15	0.461	0.011	0.006	0.044	---	---	12
13	---	---	0.158B	0.289B	0.306	1.97	0.388	0.009	0.009	0.043	---	---	13
14	---	---	0.195B	0.305B	0.299	1.35	0.314	0.080	0.010	0.045	---	---	14
15	---	---	0.300B	0.394B	0.299	0.921	0.276	0.052	0.012	0.038	---	---	15
16	---	---	0.400B	0.440B	0.311	0.689	0.281	0.023	0.011	0.050	---	---	16
17	---	---	0.500B	0.618B	0.308	0.619	0.322	0.032	0.010	0.042	---	---	17
18	---	---	0.600B	0.714B	0.326	0.464	0.247	0.027	0.017	0.040A	---	---	18
19	---	---	0.700B	0.991B	0.319	0.510	0.214	0.021	0.016	0.039	---	---	19
20	---	---	0.750B	1.11 B	0.331	0.393	0.195	0.018	0.012	0.034	---	---	20
21	---	---	0.750B	0.854B	0.325	0.314	0.171	0.016	0.010	0.030	---	---	21
22	---	---	0.500B	0.575B	0.501	0.266	0.143	0.019	0.008	0.030	---	---	22
23	---	---	0.300B	0.521B	0.440	0.228	0.124	0.046	0.015	0.027	---	---	23
24	---	---	0.200B	0.565	0.530	0.202	0.109	0.042	0.016	0.036	---	---	24
25	---	---	0.210B	0.485	1.10	0.204	0.106	0.034	0.031	0.042	---	---	25
26	---	---	0.230B	0.414	0.932	0.248	0.098	0.030	0.012	0.034	---	---	26
27	---	---	0.280B	0.408	0.690	0.260	0.089	0.041	0.009	0.024	---	---	27
28	---	---	0.928B	0.399	0.564	0.252	0.075	0.034	0.008	0.022	---	---	28
29	---	---	1.36 B	0.396	0.522	0.226	0.066	0.022	0.008	0.024	---	---	29
30	---		1.87 B	0.352	0.580	0.206	0.059	0.019	0.008	0.022A	---	---	30
31	---		2.11 B		0.745		0.054	0.074		0.020E		---	31
TOTAL	---	---	15.087	17.616	13.367	20.143	47.606	1.135	0.537	1.064	---	---	TOTAL
MEAN	---	---	0.487	0.587	0.431	0.671	1.54	0.037	0.018	0.034	---	---	MEAN
MAX	---	---	2.11	2.02	1.10	1.97	13.0	0.083	0.074	0.061	---	---	MAX
MIN	---	---	0.100	0.166	0.290	0.202	0.054	0.009	0.006	0.009	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.476
MAXIMUM DAILY, 13.0 ON JUL 04
MINIMUM DAILY, 0.006 ON SEP 12
MAXIMUM INSTANTANEOUS,
19.1 AT 18:27 MST ON JUL 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 24 21 N
LONG 114 45 41 W
DRAINAGE AREA, 105 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	4 110
FEB	---	AUG	98.1
MAR	1 300	SEP	46.4
APR	1 520	OCT	91.9
MAY	1 150	NOV	---
JUN	1 740	DEC	---

TOTAL DISCHARGE, 10 100 dam³

TRAP CREEK NEAR LONGVIEW - STATION NO. 05BL027

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	1.18	11.4 A	2.45	2.42	1.18	0.662	---	---	1
2	---	---	---	---	1.44	10.9 E	2.28	2.26	1.14	0.652	---	---	2
3	---	---	---	---	1.67	10.6 E	2.16	2.03	1.12	0.643	---	---	3
4	---	---	---	---	2.34	9.62A	2.02	1.89	1.09	0.675	---	---	4
5	---	---	---	---	3.28	8.00	1.88	1.81	1.05	0.771	---	---	5
6	---	---	---	---	4.28	6.85	1.86	1.72	1.01	0.685	---	---	6
7	---	---	---	---	3.65	6.23	2.04	1.65	0.983	0.675	---	---	7
8	---	---	---	---	3.01	5.47	1.97	1.59	0.965	0.671	---	---	8
9	---	---	---	---	2.70	5.14	1.83	1.54	0.961	0.671	---	---	9
10	---	---	---	---	2.62	5.48	1.74	1.50	0.920	0.717	---	---	10
11	---	---	---	---	2.55	5.33	1.69	1.52	0.919	0.680	---	---	11
12	---	---	---	---	2.53	4.57	1.62	1.50	0.893	0.668	---	---	12
13	---	---	---	---	2.50	4.42	1.55	1.47	0.892	0.657	---	---	13
14	---	---	---	---	2.46	4.16	1.48	1.43	0.873	0.660	---	---	14
15	---	---	---	---	2.37	4.04	1.45	1.35	0.854	0.675	---	---	15
16	---	---	---	---	2.31	4.16	1.42	1.34	0.840	0.649	---	---	16
17	---	---	---	---	2.30	4.05	1.37	1.31	0.824	0.634	---	---	17
18	---	---	---	---	2.48	3.94	1.47	1.38	0.810	0.607	---	---	18
19	---	---	---	1.04A	2.50	3.80	1.58	1.50	0.793	0.615	---	---	19
20	---	---	---	1.44	2.51	3.76	1.49	1.42	0.774	0.656	---	---	20
21	---	---	---	1.74	2.56	3.55	1.41	1.31	0.766	0.636	---	---	21
22	---	---	---	1.83	2.66	3.52	1.32	1.23	0.758	0.610	---	---	22
23	---	---	---	1.77	3.27	3.67	1.25	1.23	0.743	0.661	---	---	23
24	---	---	---	1.65	5.69	3.50	1.26	1.46	0.724	0.596	---	---	24
25	---	---	---	1.50	29.3 A	3.33	1.79	1.51	0.723	0.609	---	---	25
26	---	---	---	1.42	30.0 A	3.10	2.95	1.59	0.708	0.618	---	---	26
27	---	---	---	1.29	17.9 A	2.92	2.83	1.50	0.705	0.601	---	---	27
28	---	---	---	1.23	14.2 E	2.71	2.73	1.40	0.691	0.603	---	---	28
29	---	---	---	1.12	18.4 A	2.53	2.65	1.33	0.672	0.593	---	---	29
30	---		---	1.10	18.5 E	2.50	3.00	1.29	0.656	0.588A	---	---	30
31	---		---		14.5 E		2.69	1.24		0.580E		---	31
TOTAL	---	---	---	---	207.66	153.25	59.23	47.78	26.037	20.018	---	---	TOTAL
MEAN	---	---	---	---	6.70	5.11	1.91	1.54	0.868	0.646	---	---	MEAN
MAX	---	---	---	---	30.0	11.4	3.00	2.42	1.18	0.771	---	---	MAX
MIN	---	---	---	---	1.18	2.50	1.25	1.23	0.656	0.580	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.79
MAXIMUM DAILY, 30.0A ON MAY 26
MINIMUM DAILY, 0.580E ON OCT 31
MAXIMUM INSTANTANEOUS,
40.0 AT 00:00 MST ON MAY 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 28 36 N
LONG 114 25 28 W
DRAINAGE AREA, 137 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	5 120
FEB	---	AUG	4 130
MAR	---	SEP	2 250
APR	---	OCT	1 730
MAY	17 900	NOV	---
JUN	13 200	DEC	---

TOTAL DISCHARGE, 44 300 dam³

REMARKS - MAXIMUM DISCHARGE 40.0A ON MAY 26 WAS DERIVED FROM HIGH WATER MARKS. TIME WAS UNKNOWN

TRAVERS RESERVOIR NEAR ENCHANT - STATION NO. 05AC921

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	854.202A	856.121	856.143	855.620	854.847	854.718	854.086	---	---	1
2	---	---	---	854.198E	856.139	856.146	855.544	854.853	854.699	854.117	---	---	2
3	---	---	---	854.194E	856.158	856.140	855.488	854.860	854.673	854.071	---	---	3
4	---	---	---	854.190E	856.162	856.149	855.410	854.868	854.655	854.040	---	---	4
5	---	---	---	854.186	856.162	856.145	855.352	854.877	854.637	853.842	853.885A	---	5
6	---	---	---	854.186	856.165	856.146	855.311	854.887	854.620	854.010	---	---	6
7	---	---	---	854.185	856.161	856.149	855.283	854.881	854.603	854.010	---	---	7
8	---	---	---	854.185	856.157	856.149	855.242	854.879	854.588	854.010	---	---	8
9	---	---	---	854.185	856.152	856.147	855.209	854.877	854.560	853.985	---	---	9
10	---	---	---	854.186	856.156	856.145	855.179	854.874	854.541	853.919	---	---	10
11	---	---	---	854.186	856.170	856.142	855.139	854.871	854.526	853.903	---	---	11
12	---	---	---	854.186	856.165	856.118	855.081	854.869	854.509	853.903	---	---	12
13	---	---	---	854.237	856.147	856.098	855.023	854.870	854.493	---	---	---	13
14	---	---	---	854.350	856.135	856.067	854.959	854.874	854.474	---	---	---	14
15	---	---	---	854.469	856.127	856.061	854.875	854.892	854.451	---	---	---	15
16	---	---	---	854.579	856.114	856.065	854.809	854.910	854.434	---	---	---	16
17	---	---	---	854.725A	856.106	856.063	854.750	854.916	854.407	---	---	---	17
18	---	---	---	854.852	856.114	856.053	854.695	854.918	854.385	---	---	---	18
19	---	---	---	854.972	856.091	856.040	854.658	854.926	854.364	---	---	---	19
20	---	---	---	855.091	856.074	856.027	854.627	854.932	854.335	---	---	---	20
21	---	---	---	855.204	856.079	856.016	854.635	854.931	854.310	---	---	---	21
22	---	---	---	855.327	856.074	856.009	854.643	854.916	854.279	---	---	---	22
23	---	---	---	855.446	856.071	856.011	854.655A	854.903	854.254	---	---	---	23
24	---	---	---	855.568	856.061	856.005	854.668	854.882	854.232	---	---	---	24
25	---	---	---	855.683	856.079	855.990	854.698	854.859	854.218	---	---	---	25
26	---	---	---	855.802	856.082	855.967	854.735	854.841	854.201	---	---	---	26
27	---	---	---	855.897	856.075	855.918	854.760	854.827	854.202A	---	---	---	27
28	---	---	---	855.981	856.084	855.860	854.761	854.811	854.145A	---	---	---	28
29	---		---	856.052	856.106	855.781	854.773	854.792	854.125	---	---	---	29
30	---		---	856.098	856.125	855.698	854.795	854.779	854.100	---	---	---	30
31	---		---		856.137		854.829	854.743		---		---	31
MEAN	---	---	---	854.820	856.121	856.048	854.974	854.870	854.425	---	---	---	MEAN
MAX	---	---	---	856.098	856.170	856.149	855.620	854.932	854.718	---	---	---	MAX
MIN	---	---	---	854.185	856.061	855.698	854.627	854.743	854.100	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 856.170 ON MAY 11

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 10 36 N
LONG 112 41 15 W
DATA CONTRIBUTED BY -
ALBERTA DEPARTMENT OF THE ENVIRONMENT

A - MANUAL GAUGE
E - ESTIMATED
REGULATED

REMARKS - DAILY MEAN WATER LEVELS ARE DERIVED FROM DATA STORED IN HANDSR 560 TELEMETRY DEVICE

TROUT CREEK NEAR GRANUM - STATION NO. 05AB005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.130B	0.185	0.261	4.18	0.852	0.327	0.096	0.062	---	---	1
2	---	---	0.135B	0.160	0.322	4.06	0.833	0.308	0.090	0.058	---	---	2
3	---	---	0.140B	0.161	0.309	4.07	0.799	0.342	0.090	0.054	---	---	3
4	---	---	0.210B	0.179	0.275	3.79	0.768	0.371	0.091	0.059	---	---	4
5	---	---	0.234B	0.173	0.259	3.58	0.714	0.296	0.078	0.069	---	---	5
6	---	---	0.244B	0.134	0.217	3.38	0.707	0.260	0.074	0.098	---	---	6
7	---	---	0.262B	0.110	0.196	3.16	0.759	0.214	0.070	0.108	---	---	7
8	---	---	0.236B	0.109	0.242	2.93	0.844	0.206	0.063	0.091	---	---	8
9	---	---	0.188B	0.136	0.276	2.67	0.672	0.209	0.064	0.088	---	---	9
10	---	---	0.226B	0.122	0.329	2.52	0.579	0.185	0.064	0.093	---	---	10
11	---	---	0.192B	0.107	0.410	2.36	0.522	0.186	0.061	0.099	---	---	11
12	---	---	0.244B	0.106	0.415	2.20	0.491	0.184	0.054	0.097	---	---	12
13	---	---	0.141B	0.104	0.430	2.23	0.454	0.191	0.073	0.090	---	---	13
14	---	---	0.122B	0.106	0.462	2.41	0.436	0.202	0.078	0.086	---	---	14
15	---	---	0.112	0.104	0.669	2.03	0.412	0.176	0.085	0.078	---	---	15
16	---	---	0.108	0.117	0.544	1.85	0.405	0.182	0.071	0.083	---	---	16
17	---	---	0.104	0.120	0.569	1.79	0.416	0.219	0.066	0.087	---	---	17
18	---	---	0.089	0.107	0.561	1.71	0.408	0.423	0.060	0.084	---	---	18
19	---	---	0.096	0.095	0.612	1.60	0.578	0.491	0.062	0.090	---	---	19
20	---	---	0.130	0.086	0.660	1.52	0.591	0.326	0.062	0.088	---	---	20
21	---	---	0.149	0.092	0.683	1.49	0.468	0.270	0.066	0.081	---	---	21
22	---	---	0.105B	0.091	0.672	1.40	0.401	0.229	0.069	0.067	---	---	22
23	---	---	0.065B	0.088	0.648	1.30	0.360	0.189	0.065	0.068	---	---	23
24	---	---	0.062	0.094	0.773	1.23	0.386	0.196	0.054	0.065	---	---	24
25	---	---	0.074	0.068	2.82	1.16	0.452	0.229	0.049	0.069	---	---	25
26	---	0.070B	0.085	0.081	3.59	1.10	0.614	0.261	0.046	0.072	---	---	26
27	---	0.200B	0.090	0.120	3.99	1.04	0.502	0.252	0.049	0.067	---	---	27
28	---	0.150B	0.090	0.196	4.15	1.00	0.457	0.201	0.054	0.080	---	---	28
29	---		0.095	0.201	4.88	0.954	0.407	0.163	0.054	0.070A	---	---	29
30	---		0.118	0.207	4.71	0.899	0.347	0.135	0.057	0.070E	---	---	30
31	---		0.169		4.46		0.320	0.115		0.072E		---	31
TOTAL	---	---	4.445	3.759	39.394	65.613	17.034	7.538	2.015	2.443	---	---	TOTAL
MEAN	---	---	0.143	0.125	1.27	2.19	0.550	0.243	0.067	0.079	---	---	MEAN
MAX	---	---	0.262	0.207	4.88	4.18	0.852	0.491	0.096	0.108	---	---	MAX
MIN	---	---	0.062	0.068	0.196	0.899	0.320	0.115	0.046	0.054	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.581
MAXIMUM DAILY, 4.88 ON MAY 29
MINIMUM DAILY, 0.046 ON SEP 26
MAXIMUM INSTANTANEOUS,
7.24 AT 10:48 MST ON MAY 15

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 58 35 N
LONG 113 41 07 W
DRAINAGE AREA, 440 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 470
FEB	---	AUG	651
MAR	384	SEP	174
APR	325	OCT	211
MAY	3 400	NOV	---
JUN	5 670	DEC	---

TOTAL DISCHARGE, 12 300 dam³

TWELVE MILE CREEK NEAR CECIL - STATION NO. 05BN002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.010E	3.77	6.50	4.19	2.79	1.90	0.833A	---	1
2	---	---	---	---	0.009E	4.26	7.13	4.07	2.11	2.43	---	---	2
3	---	---	---	---	0.007E	3.05	6.88	3.70	1.61	1.75	---	---	3
4	---	---	---	---	0.006E	2.13	8.24	3.53	1.19	1.96	---	---	4
5	---	---	---	---	0.005E	4.68	7.79	3.36	1.44	3.77	---	---	5
6	---	---	---	---	0.004E	3.73	6.91	3.10	1.86	3.55	---	---	6
7	---	---	---	---	0.003E	3.23	8.12	3.83	1.84	3.09	---	---	7
8	---	---	---	---	0.003E	3.57	6.98	3.79	2.23	3.54	---	---	8
9	---	---	---	---	0.002A	3.96	6.45	3.29	2.24	3.07	---	---	9
10	---	---	---	---	0.001E	3.76	6.42	3.00	2.12	4.32	---	---	10
11	---	---	---	---	0.323A	0.418	6.01	3.19	2.45	4.46	---	---	11
12	---	---	---	---	2.03	5.87	5.03	3.47	2.70	1.92	---	---	12
13	---	---	---	---	0.399	5.17	5.24	3.99	2.21	4.91	---	---	13
14	---	---	---	---	0.813	3.26	4.88	4.04	2.32	3.76	---	---	14
15	---	---	---	---	3.19	2.90	4.15	4.06	2.20	2.61	---	---	15
16	---	---	---	---	0.841	3.30	4.23	3.95	1.51	2.03	---	---	16
17	---	---	---	---	1.13	3.63	4.43	3.92	3.67	0.880	---	---	17
18	---	---	---	---	2.37	3.56	4.69	3.23	3.45	0.293	---	---	18
19	---	---	---	---	3.46	3.65	5.53	3.44	3.98	1.23	---	---	19
20	---	---	---	---	3.14	3.57	6.73	3.25	3.30	1.42	---	---	20
21	---	---	---	---	3.13	3.43	8.32	2.86	3.87	0.237	---	---	21
22	---	---	---	---	4.26	3.32	8.77	3.15	3.46	0.122	---	---	22
23	---	---	---	0.004A	2.92	3.65	8.99	4.27	3.13	0.390	---	---	23
24	---	---	---	2.00 A	3.18	4.12	10.0	4.02	3.46	0.336	---	---	24
25	---	---	---	3.59	3.33	4.27	9.89	3.75	3.10	0.120	---	---	25
26	---	---	---	0.192	4.28	4.10	9.11	3.48	2.87	0.115	---	---	26
27	---	---	---	0.015E	4.15	4.33	8.69	3.15	2.55	0.311	---	---	27
28	---	---	---	0.360A	3.94	4.24	7.80	3.20	1.78	0.125	---	---	28
29	---	---	---	0.018E	3.45	4.83	6.59	3.22	1.50	0.094	---	---	29
30	---		---	0.012E	3.44	5.32	5.08	1.48	2.95	0.089	---	---	30
31	---		---		4.59		4.58	2.77		0.503		---	31
TOTAL	---	---	---	---	58.416	113.078	210.16	107.75	75.89	57.335	---	---	TOTAL
MEAN	---	---	---	---	1.88	3.77	6.78	3.48	2.53	1.85	---	---	MEAN
MAX	---	---	---	---	4.59	5.87	10.0	4.27	3.98	4.91	---	---	MAX
MIN	---	---	---	---	0.001	0.418	4.15	1.48	1.19	0.089	---	---	MIN

SUMMARY FOR THE MONTHS MAY TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.38
MAXIMUM DAILY, 10.0 ON JUL 24
MINIMUM DAILY, 0.001E ON MAY 10

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 09 00 N
LONG 111 40 00 W
DRAINAGE AREA, 2 790 km²
A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	18 200
FEB	---	AUG	9 310
MAR	---	SEP	6 560
APR	---	OCT	4 950
MAY	5 050	NOV	---
JUN	9 770	DEC	---

TOTAL DISCHARGE, 53 800 dam³

UNITED IRRIGATION DISTRICT CANAL NEAR HILL SPRING - STATION NO. 05AD013

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0E	0	0	2.00	2.17	1.33	1.33	0	---	1
2	---	---	---	0E	0	0	2.00	2.13	1.32	1.38	0	---	2
3	---	---	---	0E	0	0	1.98	2.12	1.35	1.42	0	---	3
4	---	---	---	0E	0	0	1.96	2.09	1.34	1.51	0	---	4
5	---	---	---	0E	0	0	1.92	2.06	1.33	1.88	0	---	5
6	---	---	---	0E	0	0	1.92	2.04	1.33	2.02	0	---	6
7	---	---	---	0E	0	0	1.89	2.27	1.57	1.97	0A	---	7
8	---	---	---	0E	0	0	1.88	2.45	1.66	1.89	0E	---	8
9	---	---	---	0E	0	0	1.77	2.44	1.66	1.58	0E	---	9
10	---	---	---	0E	0	0	1.97	2.44	1.65	1.28	0E	---	10
11	---	---	---	0E	0	0	2.72	2.44	1.65	1.29	0E	---	11
12	---	---	---	0E	0	0	2.39	2.44	1.53	1.62	0E	---	12
13	---	---	---	0E	0	0	2.53	2.43	1.56	1.92	0E	---	13
14	---	---	---	0E	0	0	2.63	2.52	1.52	1.90	0E	---	14
15	---	---	---	0E	0	0	2.61	2.65	1.43	0.779	0E	---	15
16	---	---	---	0E	0	0	2.57	2.66	1.34	0	0E	---	16
17	---	---	---	0E	0	0	2.55	2.66	1.29	0	0E	---	17
18	---	---	---	0E	0	0.522	2.69	2.66	1.16	0	0E	---	18
19	---	---	---	0E	0	0.812	2.78	2.63	1.09	0	0E	---	19
20	---	---	---	0E	0	1.43	2.76	2.68	1.08	0	0E	---	20
21	---	---	---	0E	0	2.15	2.73	2.43	1.03	0	0E	---	21
22	---	---	---	0E	0	2.05	2.69	2.13	1.09	0	0E	---	22
23	---	---	---	0E	0	2.06	2.77	2.12	1.28	0	0E	---	23
24	---	---	---	0E	0	2.10	2.89	1.95	1.21	0	0E	---	24
25	---	---	---	0A	0	2.10	2.98	1.88	1.14	0	0E	---	25
26	---	---	---	0	0	2.10	2.80	1.88	1.17	0	0E	---	26
27	---	---	---	0	0	2.09	2.74	1.62	1.41	0	0E	---	27
28	---	---	---	0	0	2.06	2.69	1.35	1.43	0	0E	---	28
29	---	---	---	0	0	2.02	2.65	1.34	1.44	0	0E	---	29
30	---		---	0	0	1.99	2.44	1.33	1.42	0	0E	---	30
31	---		---		0		2.21	1.34		0		---	31
TOTAL	---	---	---	0	0	23.484	75.11	67.35	40.81	23.769	0	---	TOTAL
MEAN	---	---	---	0	0	0.783	2.42	2.17	1.36	0.767	0	---	MEAN
MAX	---	---	---	0	0	2.15	2.98	2.68	1.66	2.02	0	---	MAX
MIN	---	---	---	0	0	0	1.77	1.33	1.03	0	0	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.945
MAXIMUM DAILY, 2.98 ON JUL 25
MINIMUM DAILY, 0E ON APR 01

SUMMARY FOR THE MONTHS APR TO NOV

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 13 04 N
LONG 113 37 56 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	6 490
FEB	---	AUG	5 820
MAR	---	SEP	3 530
APR	0	OCT	2 050
MAY	0	NOV	0
JUN	2 030	DEC	---

TOTAL DISCHARGE, 19 900 dam³

UNNAMED CREEK NEAR FORT MACKAY - STATION NO. 07DA011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.091B	0.111B	1.31	0.815	0.809	0.197	0.110	0.165E	---	---	1
2	---	---	0.104B	0.158B	1.36	0.703	0.741	0.159	0.099	0.165E	---	---	2
3	---	---	0.110B	0.170B	2.38	0.642	0.699	0.147	0.099	0.165E	---	---	3
4	---	---	0.115B	0.170B	2.20	0.609	0.659	0.157	0.104	0.170E	---	---	4
5	---	---	0.120B	0.179B	2.72	0.575	0.611	0.142	0.105	0.170E	---	---	5
6	---	---	0.110B	0.230B	4.25	0.560	0.781	0.129	0.096	0.170E	---	---	6
7	---	---	0.101B	0.253B	5.29	0.495	0.657	0.144	0.096	0.168E	---	---	7
8	---	---	0.097B	0.254B	4.67	0.462	0.576	0.131	0.095	0.166E	---	---	8
9	---	---	0.094B	0.248B	4.38	0.445	0.512	0.119	0.108	0.164E	---	---	9
10	---	---	0.091B	0.220B	3.81	0.475	0.475	0.111	0.109	0.163E	---	---	10
11	---	---	0.090B	0.203B	3.26	0.963	0.430	0.110	0.107	0.162E	---	---	11
12	---	---	0.086B	0.204B	3.07	3.62	0.395	0.109	0.122	0.160E	---	---	12
13	---	---	0.087B	0.202B	2.69	6.14	0.353	0.131	0.134	0.157E	---	---	13
14	---	---	0.084B	0.206B	2.26	6.72	0.342	0.110	0.121	0.154E	---	---	14
15	---	---	0.083B	0.204B	1.98	5.61	0.332	0.100	0.118	0.150B	---	---	15
16	---	---	0.086B	0.212B	1.75	4.52	0.290	0.095	0.119	0.150B	---	---	16
17	---	---	0.083B	0.239B	1.53	3.96	0.266	0.085	0.130	0.150B	---	---	17
18	---	---	0.080B	0.380B	1.54	3.93	0.260	0.083	0.168	0.150B	---	---	18
19	---	---	0.077B	0.563B	1.40	3.33	0.261	0.084	0.218	0.145B	---	---	19
20	---	---	0.078B	0.745B	1.83	2.77	0.253	0.080	0.230A	0.145B	---	---	20
21	---	---	0.077B	0.927B	1.95	2.41	0.243	0.080	0.230A	0.145B	---	---	21
22	---	---	0.073B	1.03 B	2.11	1.92	0.231	0.085	0.225E	0.145B	---	---	22
23	---	---	0.075B	1.38 B	2.23	1.60	0.217	0.107	0.215E	0.143B	---	---	23
24	---	---	0.076B	1.71 B	1.95	1.30	0.214	0.107	0.205E	0.142B	---	---	24
25	---	---	0.067B	1.58 B	1.79	1.09	0.201	0.099	0.185E	0.140B	---	---	25
26	---	---	0.065B	1.27 B	1.49	0.878	0.194	0.096	0.175E	0.140B	---	---	26
27	---	---	0.061B	0.911B	1.28	0.785	0.178	0.095	0.170E	0.140B	---	---	27
28	---	---	0.059B	0.755B	1.10	0.730	0.175	0.096	0.170E	0.137B	---	---	28
29	---	---	0.063B	0.758B	0.902	0.711	0.166	0.099	0.170E	0.135B	---	---	29
30	---		0.086B	1.18	0.929	0.671	0.161	0.120	0.170E	0.132B	---	---	30
31	---		0.107B		0.711		0.153	0.122		0.130B		---	31
TOTAL	---	---	2.676	16.652	70.122	59.439	11.835	3.529	4.403	4.718	---	---	TOTAL
MEAN	---	---	0.086	0.555	2.26	1.98	0.382	0.114	0.147	0.152	---	---	MEAN
MAX	---	---	0.120	1.71	5.29	6.72	0.809	0.197	0.230	0.170	---	---	MAX
MIN	---	---	0.059	0.111	0.711	0.445	0.153	0.080	0.095	0.130	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.708
MAXIMUM DAILY, 6.72 ON JUN 14
MINIMUM DAILY, 0.059B ON MAR 28
MAXIMUM INSTANTANEOUS,
7.59 AT 21:22 MST ON JUN 14

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 39 41 N
LONG 111 31 11 W
DRAINAGE AREA, 274 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 020
FEB	---	AUG	305
MAR	231	SEP	380
APR	1 440	OCT	408
MAY	6 060	NOV	---
JUN	5 140	DEC	---

TOTAL DISCHARGE, 15 000 dam³

UPPER KANANASKIS LAKE - STATION NO. 05BF005

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 694.35	1 691.85	1 689.70	1 688.70	1 688.32	1 690.06	1 694.11	1 697.75	1 700.19	1 700.37	1 700.12	1 697.95	1
2	1 694.24	1 691.74	1 689.62	1 688.65	1 688.33	1 690.23	1 694.31	1 697.89	1 700.26	1 700.30	1 700.13	1 697.95	2
3	1 694.14	1 691.70	1 689.62	1 688.59	1 688.31	1 690.37	1 694.47	1 698.01	1 700.32	1 700.21	1 700.15	1 697.83	3
4	1 694.04	1 691.67	1 689.62	1 688.61	1 688.33	1 690.52	1 694.63	1 698.13	1 700.32	1 700.23	1 700.16	1 697.73	4
5	1 693.93	1 691.57	1 689.56	1 688.56	1 688.35	1 690.63	1 694.80	1 698.25	1 700.34	1 700.23	1 700.08	1 697.61	5
6	1 693.89	1 691.47	1 689.50	1 688.53	1 688.39	1 690.74	1 694.91	1 698.38	1 700.36	1 700.29	1 699.98	1 697.50	6
7	1 693.86	1 691.36	1 689.44	1 688.53	1 688.40	1 690.86	1 695.09	1 698.44	1 700.37	1 700.33	1 699.85	1 697.38	7
8	1 693.76	1 691.27	1 689.38	1 688.55	1 688.44	1 690.91	1 695.26	1 698.50	1 700.43	1 700.36	1 699.77	1 697.31	8
9	1 693.66	1 691.18	1 689.33	1 688.51	1 688.46	1 691.01	1 695.43	1 698.53	1 700.51	1 700.33	1 699.68	1 697.34	9
10	1 693.56	1 691.15	1 689.34	1 688.52	1 688.48	1 691.14	1 695.62	1 698.61	1 700.50	1 700.31	1 699.65	1 697.22	10
11	1 693.45	1 691.13	1 689.34	1 688.48	1 688.49	1 691.25	1 695.79	1 698.74	1 700.50	1 700.27	1 699.68	1 697.12	11
12	1 693.38	1 691.03	1 689.30	1 688.44	1 688.52	1 691.37	1 695.93	1 698.87	1 700.49	1 700.22	1 699.57	1 697.00	12
13	1 693.35	1 690.91	1 689.25	1 688.44	1 688.54	1 691.49	1 696.06	1 698.92	1 700.46	1 700.25	1 699.47	1 696.93	13
14	1 693.36	1 690.81	1 689.20	1 688.45	1 688.57	1 691.55	1 696.29	1 698.99	1 700.44	1 700.27	1 699.37	1 696.81	14
15	1 693.25	1 690.71	1 689.16	1 688.46	1 688.57	1 691.64	1 696.48	1 699.06	1 700.50	1 700.22	1 699.26	1 696.72	15
16	1 693.15	1 690.63	1 689.13	1 688.46	1 688.57	1 691.75	1 696.56	1 699.12	1 700.56	1 700.17	1 699.14	1 696.73	16
17	1 693.07	1 690.58	1 689.13	1 688.42	1 688.61	1 691.88	1 696.60	1 699.16	1 700.52	1 700.10	1 699.08	1 696.62	17
18	1 692.96	1 690.55	1 689.14	1 688.43	1 688.60	1 691.96	1 696.61	1 699.28	1 700.48	1 700.03	1 699.09	1 696.50	18
19	1 692.85	1 690.51	1 689.10	1 688.40	1 688.63	1 692.03	1 696.63	1 699.39	1 700.44	1 699.96	1 698.97	1 696.39	19
20	1 692.80	1 690.40	1 689.05	1 688.36	1 688.65	1 692.17	1 696.62	1 699.43	1 700.38	1 699.97	1 698.87	1 696.31	20
21	1 692.82	1 690.30	1 689.01	1 688.38	1 688.68	1 692.26	1 696.73	1 699.53	1 700.34	1 699.98	1 698.75	1 696.19	21
22	1 692.72	1 690.19	1 688.95	1 688.38	1 688.70	1 692.35	1 696.86	1 699.65	1 700.38	1 699.99	1 698.69	1 696.11	22
23	1 692.61	1 690.08	1 688.92	1 688.35	1 688.69	1 692.55	1 696.86	1 699.69	1 700.45	1 700.01	1 698.59	1 696.06	23
24	1 692.53	1 690.05	1 688.92	1 688.37	1 688.76	1 692.78	1 696.89	1 699.78	1 700.44	1 700.01	1 698.57	1 695.95	24
25	1 692.42	1 690.06	1 688.92	1 688.32	1 688.86	1 692.94	1 696.93	1 699.86	1 700.44	1 700.03	1 698.57	1 695.90	25
26	1 692.32	1 689.95	1 688.88	1 688.35	1 689.01	1 693.16	1 697.01	1 699.94	1 700.42	1 700.04	1 698.47	1 695.79	26
27	1 692.27	1 689.85	1 688.82	1 688.31	1 689.14	1 693.37	1 697.09	1 699.96	1 700.38	1 700.05	1 698.36	1 695.69	27
28	1 692.23	1 689.77	1 688.78	1 688.32	1 689.27	1 693.51	1 697.25	1 700.02	1 700.35	1 700.06	1 698.25	1 695.59	28
29	1 692.17		1 688.73	1 688.33	1 689.43	1 693.68	1 697.39	1 700.04	1 700.38	1 700.08	1 698.14	1 695.50	29
30	1 692.07		1 688.69	1 688.35	1 689.64	1 693.90	1 697.53	1 700.10	1 700.42	1 700.10	1 698.03	1 695.45	30
31	1 691.96		1 688.69		1 689.84		1 697.68	1 700.11		1 700.12		1 695.39	31
MEAN	1 693.13	1 690.80	1 689.17	1 688.45	1 688.70	1 691.80	1 696.14	1 699.10	1 700.41	1 700.16	1 699.22	1 696.66	MEAN
MAX	1 694.35	1 691.85	1 689.70	1 688.70	1 689.84	1 693.90	1 697.68	1 700.11	1 700.56	1 700.37	1 700.16	1 697.95	MAX
MIN	1 691.96	1 689.77	1 688.69	1 688.31	1 688.31	1 690.06	1 694.11	1 697.75	1 700.19	1 699.96	1 698.03	1 695.39	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MEAN, 1 694.50
MAXIMUM DAILY, 1 700.56 ON SEP 16
MINIMUM DAILY, 1 688.31 ON APR 27

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 37 00 N
LONG 115 07 00 W
DATA CONTRIBUTED BY -
TRANSALTA UTILITIES CORPORATION

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA, 151 km²

WATER LEVELS ARE REFERRED TO TRANSALTA UTILITIES DATUM
APPLY 5.38 m ADJUSTMENT TO CONVERT TO GEODETIC SURVEY OF CANADA DATUM

UTIKUMA LAKE NEAR NIPISI - STATION NO. 07JA001

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	30.140	---	---	---	---	---	---	---	1
2	---	---	---	---	---	---	---	30.182	---	---	---	---	2
3	---	---	---	---	---	---	---	---	---	---	---	---	3
4	---	---	---	---	---	---	---	---	---	---	---	---	4
5	---	---	---	---	---	---	---	---	---	---	---	---	5
6	---	---	---	---	---	---	---	---	---	---	---	---	6
7	---	---	---	---	---	---	---	---	---	---	---	---	7
8	---	---	---	---	---	---	---	---	---	---	---	---	8
9	---	---	---	---	---	---	---	---	---	---	---	---	9
10	---	---	---	30.104	---	---	---	---	---	---	---	---	10
11	---	---	---	---	---	---	---	---	---	---	---	---	11
12	---	---	---	---	---	---	---	---	---	---	---	---	12
13	---	---	---	---	---	---	---	---	---	---	---	---	13
14	---	---	---	---	---	---	---	---	---	---	---	---	14
15	---	---	---	---	---	---	---	---	---	---	---	---	15
16	---	---	---	---	---	---	---	---	---	---	---	---	16
17	---	---	---	30.110	---	---	---	---	---	---	---	---	17
18	---	---	---	---	---	---	---	---	---	---	---	---	18
19	---	---	---	---	---	---	---	---	---	---	---	---	19
20	---	---	---	---	---	---	---	---	---	---	---	---	20
21	---	---	---	---	---	---	---	---	---	---	---	---	21
22	---	---	---	---	---	---	---	---	---	---	---	---	22
23	---	---	---	---	---	---	---	---	---	---	---	---	23
24	---	---	---	---	---	---	---	---	---	---	---	---	24
25	---	---	---	---	---	---	---	---	30.030	---	---	---	25
26	---	---	---	---	---	---	---	---	---	---	---	---	26
27	---	30.096	30.108	---	---	---	---	---	---	---	---	---	27
28	---	---	---	---	---	30.262	---	30.062	---	---	---	---	28
29	---		---	---	---	---	---	---	---	---	---	---	29
30	---		---	---	30.132	---	---	---	---	29.974	---	---	30
31	---		---		---		---	---		---		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 55 51 36 N
LONG 115 15 27 W

A - MANUAL GAUGE
E - ESTIMATED
NATURAL FLOW
DRAINAGE AREA, 2 470 km²

WATER LEVELS ARE REFERRED TO ASSUMED DATUM

VERDIGRIS COULEE NEAR THE MOUTH - STATION NO. 11AA038

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.009B	0.189	0.136	0.321	0.041	0.058	0.151	0.163	---	---	1
2	---	---	0.014B	0.158	0.164	0.344	0.060	0.051	0.110	0.177	---	---	2
3	---	---	0.010B	0.239	0.133	0.333	0.047	0.077	0.114	0.207	---	---	3
4	---	---	0.014B	0.192	0.161	0.302	0.087	0.076	0.125	0.231	---	---	4
5	---	---	0.018B	0.136B	0.118	0.375	0.016	0.050A	0.120	0.246	---	---	5
6	---	---	0.016B	0.140B	0.157	0.297	0.008	0.018	0.129	0.256	---	---	6
7	---	---	0.013B	0.134	0.224	0.279	0.046	0.020	0.133	0.245	---	---	7
8	---	---	0.017B	0.218	0.277	0.317	0.061	0.022	0.136	0.244	---	---	8
9	---	---	0.035B	0.090B	0.173	0.245	0.008	0.023	0.137	0.243	---	---	9
10	---	---	0.090B	0.110B	0.196	0.148	0.001	0.025	0.117	0.254	---	---	10
11	---	---	0.155B	0.205B	0.197	0.228	0.005	0.026	0.111	0.273	---	---	11
12	---	---	0.097B	0.172	0.236	0.248	0.003	0.028	0.100	0.264	---	---	12
13	---	---	0.120B	0.194	0.211	0.319	0	0.030	0.121	0.280	---	---	13
14	---	---	0.134B	0.173	0.179	0.247	0.007	0.032	0.106	0.293	---	---	14
15	---	---	0.086	0.138	0.274	0.186	0.012	0.081A	0.085	0.272	---	---	15
16	---	---	0.572	0.130	0.240	0.187	0.003	0.125	0.073	0.279	---	---	16
17	---	---	0.451	0.039	0.198	0.213	0.017	0.156	0.109	0.271	---	---	17
18	---	---	0.780	0.087	0.219	0.208	0.004	0.093	0.076	0.252	---	---	18
19	---	---	0.533	0.097	0.272	0.233	0.001	0.099	0.055	0.292	---	---	19
20	---	---	0.466	0.034	0.209	0.205	0	0.106	0.087	0.275	---	---	20
21	---	---	0.400	0.032	0.249	0.203	0	0.109	0.074	0.246	---	---	21
22	---	---	0.352	0.020	0.240	0.153	0	0.111	0.077	0.284	---	---	22
23	---	---	0.332	0.018	0.195	0.152	0	0.115	0.036	0.307	---	---	23
24	---	---	0.358	0.022	0.354	0.166	0.014	0.120	0.072	0.268	---	---	24
25	---	---	0.450	0.044	0.772	0.143	0.011	0.128	0.112	0.251	---	---	25
26	---	---	0.404	0.051	0.413	0.118	0.010	0.132	0.143	0.234	---	---	26
27	---	0.014B	0.335	0.015	0.345	0.119	0.041	0.132	0.153	0.228	---	---	27
28	---	0.011B	0.295	0.005	0.323	0.082	0.054	0.134	0.162	0.133	---	---	28
29	---		0.265	0.233	0.295	0.084	0.015	0.145	0.097	0.163	---	---	29
30	---		0.275	0.354	0.399	0.040	0.014	0.114	0.119	0.119	---	---	30
31	---		0.280		0.344		0.026	0.160		0.132A		---	31
TOTAL	---	---	7.376	3.669	7.903	6.495	0.612	2.596	3.256	7.382	---	---	TOTAL
MEAN	---	---	0.238	0.122	0.255	0.217	0.020	0.084	0.109	0.238	---	---	MEAN
MAX	---	---	0.780	0.354	0.772	0.375	0.087	0.160	0.162	0.307	---	---	MAX
MIN	---	---	0.009	0.005	0.118	0.040	0	0.018	0.036	0.119	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.160
MAXIMUM DAILY, 0.780 ON MAR 18
MINIMUM DAILY, 0 ON JUL 13
MAXIMUM INSTANTANEOUS,
1.41 AT 19:14 MST ON MAR 18

SUMMARY FOR THE MONTHS MAR TO OCT

INTERNATIONAL GAUGING STATION
TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 06 39 N
LONG 111 45 31 W
DRAINAGE AREA, 356 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

REGULATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	52.9
FEB	---	AUG	224
MAR	637	SEP	281
APR	317	OCT	638
MAY	683	NOV	---
JUN	561	DEC	---

TOTAL DISCHARGE, 3 390 dam³

VERDIGRIS LAKE TRIBUTARY NEAR MILK RIVER - STATION NO. 11AA039

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	0.001B	0.115B	0.064	0.135	0.038	0	0	0	0	---	---	1
2	---	0.001B	0.120B	0.063	0.176	0.022	0	0	0	0	---	---	2
3	---	0.001B	0.098B	0.046	0.085	0.017	0	0	0	0	---	---	3
4	---	0.001B	0.088B	0.038	0.046	0.013	0	0	0	0	---	---	4
5	---	0.001B	0.064B	0.025	0.026	0.008	0	0	0	0	---	---	5
6	---	0.001B	0.029B	0.019	0.016	0.006	0	0	0	0	---	---	6
7	---	0.001B	0.022B	0.014	0.010	0.006	0	0	0	0	---	---	7
8	---	0.001B	0.016B	0.012	0.010	0.005	0	0	0	0	---	---	8
9	---	0.001B	0.008B	0.012	0.010	0.004	0	0	0	0	---	---	9
10	---	0.001B	0.004B	0.010	0.010	0.003	0	0	0	0	---	---	10
11	---	0 B	0.002B	0.012	0.011	0.003	0	0	0	0	---	---	11
12	---	0 B	0.001B	0.019	0.014	0.003	0	0	0	0	---	---	12
13	---	0 B	0.001B	0.034	0.013	0.008	0	0	0	0	---	---	13
14	---	0 B	0.002B	0.029	0.010	0.015	0	0	0	0	---	---	14
15	---	0 B	0.002	0.019	0.007	0.013	0	0	0	0	---	---	15
16	---	0 B	0.003	0.014	0.005	0.011	0	0	0	0	---	---	16
17	---	0 B	0.004	0.010	0.004	0.008	0	0	0	0	---	---	17
18	---	0 B	0.008	0.008	0.004	0.006	0	0	0	0	---	---	18
19	---	0 B	0.044B	0.006	0.004	0.005	0	0	0	0	---	---	19
20	---	0 B	0.210B	0.004	0.004	0.004	0	0	0	0	---	---	20
21	---	0.001B	0.200B	0.004	0.006	0.003	0	0	0	0	---	---	21
22	---	0.050B	0.140B	0.004	0.005	0.003	0	0	0	0	---	---	22
23	---	0.150B	0.100B	0.003	0.004	0.002	0	0	0	0	---	---	23
24	0.002B	0.300B	0.090B	0.003	0.170	0.001	0	0	0	0	---	---	24
25	0.002B	0.400B	0.056B	0.002	1.08	0	0	0	0	0	---	---	25
26	0.002B	0.359B	0.075B	0.003	0.182	0	0	0	0	0	---	---	26
27	0.002B	0.050B	0.088B	0.006	0.078	0	0	0	0	0	---	---	27
28	0.002B	0.053B	0.111	0.012	0.047	0	0	0	0	0	---	---	28
29	0.002B		0.140	0.012	0.034	0	0	0	0	0	---	---	29
30	0.001B		0.147	0.036	0.061	0	0	0	0	0	---	---	30
31	0.001B		0.114		0.062		0	0		0A		---	31
TOTAL	---	1.383	2.102	0.543	2.329	0.207	0	0	0	0	---	---	TOTAL
MEAN	---	0.049	0.068	0.018	0.075	0.007	0	0	0	0	---	---	MEAN
MAX	---	0.400	0.210	0.064	1.08	0.038	0	0	0	0	---	---	MAX
MIN	---	0	0.001	0.002	0.004	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.024
MAXIMUM DAILY, 1.08 ON MAY 25
MINIMUM DAILY, 0B ON FEB 11
MAXIMUM INSTANTANEOUS,
2.14 AT 03:30 MST ON MAY 25

SUMMARY FOR THE MONTHS FEB TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 13 32 N
LONG 112 05 27 W
DRAINAGE AREA, 73 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	119	AUG	0
MAR	182	SEP	0
APR	46.9	OCT	0
MAY	201	NOV	---
JUN	17.9	DEC	---

TOTAL DISCHARGE, 567 dam³

VERMILION PARK LAKE NEAR VERMILION - STATION NO. 05EE008

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	575.767E	576.343	575.996	575.882	575.781	575.966	575.756	575.695	---	---	1
2	---	---	575.767E	576.548	576.009	575.877	575.771	575.948	575.757	575.707	---	---	2
3	---	---	575.767E	576.522	576.005	575.873	575.805	575.926	575.757	575.696	---	---	3
4	---	---	575.768E	576.414	575.994	575.870	575.843	575.905	575.752	575.683	---	---	4
5	---	---	575.768E	576.330	575.990	575.870	575.863	575.889	575.749	575.687	---	---	5
6	---	---	575.769A	576.265	575.994	575.866	575.884	575.873	575.755	575.690	---	---	6
7	---	---	575.768	576.217	575.969	575.872	575.905	575.859	575.767	575.688	---	---	7
8	---	---	575.769	576.200	575.978	575.877	575.913	575.843	575.756	575.688	---	---	8
9	---	---	575.774	576.202	575.991	575.868	575.912	575.827	575.755	575.683	---	---	9
10	---	---	575.775	576.218	575.982	575.862	575.909	575.825	575.756	575.694	---	---	10
11	---	---	575.777	576.234	575.971	575.868	575.898	575.818	575.750	575.683	---	---	11
12	---	---	575.786	576.247	575.968	575.868	575.886	575.812	575.755	575.676	---	---	12
13	---	---	575.788	576.256	575.962	575.876	575.882	575.811	575.751	575.683	---	---	13
14	---	---	575.792	576.258	575.957	575.876	575.870	575.801	575.747	575.676	---	---	14
15	---	---	575.793	576.252	575.954	575.877	575.849	575.794	575.739	575.674	---	---	15
16	---	---	575.794	576.246	575.953	575.872	575.846	575.800	575.739	575.669	---	---	16
17	---	---	575.795	576.235	575.951	575.868	575.879	575.805	575.742	575.669	---	---	17
18	---	---	575.798	576.225	575.948	575.855	575.912	575.805	575.723A	575.668	---	---	18
19	---	---	575.803	576.202	575.947	575.850	575.931	575.805	575.731A	575.675	---	---	19
20	---	---	575.807	576.181	575.947	575.839	575.943	575.802	575.734	575.669	---	---	20
21	---	---	575.809	576.153	575.943	575.834	575.951	575.794	575.730	575.664	---	---	21
22	---	---	575.812	576.136	575.941	575.825	575.950	575.794	575.723	575.667	---	---	22
23	---	---	575.813	576.105	575.930	575.821	575.950	575.788	575.717	575.666	---	---	23
24	---	---	575.816	576.090	575.922	575.813	575.948	575.780	575.719	575.660	---	---	24
25	---	---	575.822	576.071	575.915	575.808	575.946	575.775	575.712	575.662	---	---	25
26	---	---	575.829	576.050	575.921	575.801	575.948	575.774	575.704	575.664	---	---	26
27	---	---	575.835	576.032	575.916	575.798	575.957	575.774	575.704	575.656	---	---	27
28	---	---	575.843	576.029	575.903	575.790	575.958	575.771	575.695	575.668A	---	---	28
29	---		575.875	576.016	575.891	575.788	575.951	575.766	575.700	575.660A	---	---	29
30	---		575.971	575.993	575.882	575.781	575.961	575.762	575.706	575.658E	---	---	30
31	---		576.092		575.887		575.973	575.761		575.657E		---	31
MEAN	---	---	575.811	576.209	575.952	575.848	575.902	575.821	575.736	575.675	---	---	MEAN
MAX	---	---	576.092	576.548	576.009	575.882	575.973	575.966	575.767	575.707	---	---	MAX
MIN	---	---	575.767	575.993	575.882	575.781	575.771	575.761	575.695	575.656	---	---	MIN

SUMMARY FOR THE YEAR 1990

WATER LEVELS IN METRES

MAXIMUM DAILY, 576.548 ON APR 02

MAXIMUM INSTANTANEOUS,
576.567 AT 22:48 MST ON APR 02

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 21 40 N
LONG 110 51 24 W

A - MANUAL GAUGE
E - ESTIMATED

DRAINAGE AREA,
6 140 km²

VERMILION RIVER AT VEGREVILLE - STATION NO. 05EE009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 E	11.5 B	0.093	0.004	0.002	0.093	0.004	0.006	---	---	1
2	---	---	0 B	13.6 B	0.084	0.004	0.003	0.073	0.005	0.006	---	---	2
3	---	---	0 B	12.4 B	0.098	0.003	0.031	0.060	0.005	0.006	---	---	3
4	---	---	0.001B	10.6	0.126	0.002	0.008	0.056	0.006	0.007	---	---	4
5	---	---	0.003B	8.37	0.118	0.001	0.004	0.040	0.007	0.012	---	---	5
6	---	---	0.007B	6.23	0.124	0.003	0.004	0.025	0.009	0.010	---	---	6
7	---	---	0.010B	4.84	0.118	0.008	0.004	0.020	0.008	0.016	---	---	7
8	---	---	0.008B	4.01	0.153	0.006	0.011	0.014	0.013	0.014	---	---	8
9	---	---	0.006B	3.39	0.101	0.005	0.195	0.011	0.012	0.010	---	---	9
10	---	---	0.010B	2.91	0.090	0.006	3.46	0.008	0.012	0.005	---	---	10
11	---	---	0.008B	2.40	0.088	0.005	3.19	0.008	0.015	0.005	---	---	11
12	---	---	0.007B	2.04	0.214	0.005	2.38	0.007	0.013	0.004	---	---	12
13	---	---	0.006B	1.86	0.148	0.004	1.82	0.006	0.010	0.004	---	---	13
14	---	---	0.008B	1.66	0.136	0.005	1.41	0.005	0.020	0.004	---	---	14
15	---	---	0.012B	1.46	0.114	0.005	1.11	0.005	0.030	0.004	---	---	15
16	---	---	0.016B	1.25	0.120	0.005	0.991	0.034	0.030	0.004	---	---	16
17	---	---	0.040B	1.07	0.096	0.004	0.889	0.005	0.028	0.004	---	---	17
18	---	---	0.213B	0.957	0.093	0.003	0.802	0.026	0.028	0.004	---	---	18
19	---	---	1.15 B	0.927	0.108	0.002	0.769	0.006	0.024	0.004	---	---	19
20	---	---	1.66 B	0.801	0.122	0.002	0.735	0.004	0.017	0.004	---	---	20
21	---	---	1.50 B	0.697	0.143	0.003	0.689	0.004	0.021	0.004	---	---	21
22	---	---	1.30 B	0.608	0.116	0.002	0.655	0.005	0.020	0.004	---	---	22
23	---	---	1.00 B	0.540	0.066	0.002	0.581	0.004	0.012	0.003	---	---	23
24	---	---	1.05 B	0.487	0.051	0.002	0.509	0.004	0.008	0.003	---	---	24
25	---	---	1.15 B	0.357	0.043	0.002	0.461	0.003	0.009	0.023	---	---	25
26	---	---	1.30 B	0.414	0.032	0.003	0.468	0.002	0.007	0.069	---	---	26
27	---	0B	1.66 B	0.335	0.033	0.002	0.456	0.002	0.006	0.118	---	---	27
28	---	0B	3.73 B	0.160	0.024	0.001	0.362	0.001	0.009	0.065	---	---	28
29	---		7.12 B	0.151	0.012	0.001	0.281	0.001	0.009	0.014	---	---	29
30	---		12.3 B	0.129	0.007	0.002	0.168	0.001	0.007	0.008	---	---	30
31	---		12.2 B		0.006		0.136	0.008		0.007A		---	31
TOTAL	---	---	47.475	96.153	2.877	0.102	22.584	0.541	0.404	0.451	---	---	TOTAL
MEAN	---	---	1.53	3.21	0.093	0.003	0.729	0.018	0.014	0.015	---	---	MEAN
MAX	---	---	12.3	13.6	0.214	0.008	3.46	0.093	0.030	0.118	---	---	MAX
MIN	---	---	0	0.129	0.006	0.001	0.002	0.001	0.004	0.003	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.696
MAXIMUM DAILY, 13.6B ON APR 02
MINIMUM DAILY, 0B ON MAR 01

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 29 28 N
LONG 112 02 18 W
DRAINAGE AREA, 1 630 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	1 950
FEB	---	AUG	46.7
MAR	4 100	SEP	34.9
APR	8 310	OCT	39.0
MAY	249	NOV	---
JUN	8.81	DEC	---

TOTAL DISCHARGE, 14 700 dam³

VERMILION RIVER DRAINAGE NEAR HOLDEN - STATION NO. 05EE913

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.792	0	0	0	0.015E	0.001	0	---	---	1
2	---	---	---	0.425	0	0	0	0.016E	0.001	0	---	---	2
3	---	---	---	0.285	0	0	0.012E	0.014E	0	0	---	---	3
4	---	---	---	0.184	0	0	0.476E	0.012E	0	0	---	---	4
5	---	---	---	0.104	0	0	0.651E	0.009E	0	0	---	---	5
6	---	---	---	0.065	0	0	0.630E	0.006E	0	0	---	---	6
7	---	---	---	0.040	0	0	1.02 E	0.003E	0	0	---	---	7
8	---	---	---	0.026	0	0	1.04 E	0	0	0	---	---	8
9	---	---	---	0.015	0	0	0.927E	0	0	0	---	---	9
10	---	---	---	0.011	0	0	0.817E	0	0	0	---	---	10
11	---	---	---	0.008	0	0	0.740E	0	0	0	---	---	11
12	---	---	---	0.005	0	0	0.696E	0	0	0	---	---	12
13	---	---	---	0.003	0	0	0.604E	0	0	0	---	---	13
14	---	---	---	0.002	0	0	0.432E	0	0	0	---	---	14
15	---	---	---	0.001	0	0	0.315E	0	0	0	---	---	15
16	---	---	---	0	0	0	0.253E	0	0	0	---	---	16
17	---	---	---	0.005	0	0	0.214E	0	0	0	---	---	17
18	---	---	---	0.007	0	0	0.192E	0	0	0	---	---	18
19	---	---	---	0.004	0	0	0.172E	0.006	0	0	---	---	19
20	---	---	---	0.001	0	0	0.146E	0.002	0	0	---	---	20
21	---	---	---	0	0	0	0.124E	0	0	0	---	---	21
22	---	---	---	0	0	0	0.102E	0	0	0	---	---	22
23	---	---	---	0.001	0	0	0.081E	0	0	0	---	---	23
24	---	---	---	0.027	0	0	0.065E	0	0	0	---	---	24
25	---	---	---	0.021	0	0	0.061E	0	0	0A	---	---	25
26	---	---	---	0.014	0	0	0.080E	0	0	0E	---	---	26
27	---	---	---	0.013	0	0	0.072E	0	0	0E	---	---	27
28	---	---	---	0.013	0	0	0.052E	0	0	0E	---	---	28
29	---	---	---	0.007	0	0	0.037E	0	0	0E	---	---	29
30	---		0.453B	0.001	0	0	0.027E	0	0	0E	---	---	30
31	---		0.333B		0		0.019E	0		0E		---	31
TOTAL	---	---	---	2.080	0	0	10.057	0.083	0.002	0	---	---	TOTAL
MEAN	---	---	---	0.069	0	0	0.324	0.003	0	0	---	---	MEAN
MAX	---	---	---	0.792	0	0	1.04	0.016	0.001	0	---	---	MAX
MIN	---	---	---	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 1.04E ON JUL 08
MINIMUM DAILY, 0 ON APR 16
MAXIMUM INSTANTANEOUS,
1.12 AT 16:00 MST ON JUL 20

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 08 02 N
LONG 112 24 19 W
DRAINAGE AREA, 56.4 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	869
FEB	---	AUG	7.17
MAR	---	SEP	0.173
APR	180	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

VERMILION RIVER NEAR MARWAYNE - STATION NO. 05EE007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.040B	11.2 B	7.48	0.585	0.221	1.23	0.232	0.026	---	---	1
2	---	---	0.040B	10.9 B	6.79	0.504	0.212	1.23	0.200	0.028	---	---	2
3	---	---	0.041B	10.1 B	6.35	0.447	0.261	1.25	0.163	0.024	---	---	3
4	---	---	0.042B	26.2 B	6.18	0.456	0.252	1.25	0.145	0.022	---	---	4
5	---	---	0.043B	48.6 B	5.97	0.456	0.228	1.27	0.142	0.027	---	---	5
6	---	---	0.045B	40.9	5.53	0.464	0.315	1.30	0.138	0.030	---	---	6
7	---	---	0.045B	28.8	5.12	0.462	0.514	1.30	0.128	0.025	---	---	7
8	---	---	0.045B	21.7	4.94	0.445	0.498	1.25	0.112	0.025	---	---	8
9	---	---	0.047B	17.7	4.72	0.461	0.568	1.16	0.106	0.041	---	---	9
10	---	---	0.047B	16.0	4.40	0.425	0.826	1.13	0.086	0.060	---	---	10
11	---	---	0.048B	15.3	4.23	0.453	0.799	1.06	0.063	0.059	---	---	11
12	---	---	0.048B	15.0	4.08	0.424	0.794	1.01	0.050	0.058	---	---	12
13	---	---	0.049B	14.8	3.72	0.419	0.784	0.951	0.045	0.059	---	---	13
14	---	---	0.049B	14.9	3.43	0.442	0.768	0.894	0.039	0.053	---	---	14
15	---	---	0.049B	15.0	3.12	0.532	0.791	0.857	0.034	0.051	---	---	15
16	---	---	0.049B	15.0	2.88	0.537	0.709	0.826	0.031	0.051	---	---	16
17	---	---	0.050B	15.1	2.74	0.511	0.713	0.811	0.031	0.051	---	---	17
18	---	---	0.052B	15.0	2.58	0.495	0.726	0.785	0.033	0.050	---	---	18
19	---	---	0.053B	14.8	2.44	0.475	0.711	0.751	0.033	0.050	---	---	19
20	---	---	0.052B	14.3	2.31	0.451	0.645	0.704	0.033	0.049	---	---	20
21	---	---	0.051B	13.7	2.15	0.447	0.598	0.650	0.032	0.046	---	---	21
22	---	---	0.050B	13.0	2.00	0.432	0.582	0.609	0.030	0.046	---	---	22
23	---	---	0.050B	12.5	1.86	0.405	0.642	0.558	0.033	0.045	---	---	23
24	---	---	0.050B	11.6	1.68	0.368	0.846	0.499	0.033	0.044	---	---	24
25	---	---	0.055B	10.8	1.49	0.352	0.991	0.454	0.029	0.043	---	---	25
26	---	---	0.098B	10.1	1.29	0.344	1.18	0.409	0.028	0.043	---	---	26
27	---	---	0.126B	9.44	1.18	0.332	1.16	0.373	0.025	0.040	---	---	27
28	---	---	0.200B	8.85	1.05	0.288	1.14	0.355	0.027	0.038	---	---	28
29	---	---	0.861B	8.20	0.927	0.263	1.15	0.324	0.030	0.032	---	---	29
30	---		5.85 B	7.81	0.783	0.225	1.18	0.280	0.031	0.030A	---	---	30
31	---		11.4 B		0.671		1.20	0.252		0.030E		---	31
TOTAL	---	---	19.725	487.30	104.111	12.900	22.004	25.782	2.142	1.276	---	---	TOTAL
MEAN	---	---	0.636	16.2	3.36	0.430	0.710	0.832	0.071	0.041	---	---	MEAN
MAX	---	---	11.4	48.6	7.48	0.585	1.20	1.30	0.232	0.060	---	---	MAX
MIN	---	---	0.040	7.81	0.671	0.225	0.212	0.252	0.025	0.022	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.76
MAXIMUM DAILY, 48.6B ON APR 05
MINIMUM DAILY, 0.022 ON OCT 04
MAXIMUM INSTANTANEOUS
49.6B AT 10:20 MST ON APR 05

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 29 28 N
LONG 110 23 51 W
DRAINAGE AREA, 7 270 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 900
FEB	---	AUG	2 230
MAR	1 700	SEP	185
APR	42 100	OCT	110
MAY	9 000	NOV	---
JUN	1 110	DEC	---

REMARKS - PEAK DISCHARGE WAS VERIFIED BY HIGH WATER MARKS ON APRIL 10.

TOTAL DISCHARGE, 58 300 dam³

VERMILION RIVER TRIBUTARY NEAR BRUCE - STATION NO. 05EE006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.30 B	0	0	0	0	0	0	---	---	1
2	---	---	0 B	1.15 B	0	0	0	0	0	0	---	---	2
3	---	---	0 B	1.29	0	0	0	0	0	0	---	---	3
4	---	---	0 B	1.18	0	0	0	0	0	0	---	---	4
5	---	---	0 B	0.913	0	0	0	0	0	0	---	---	5
6	---	---	0 B	0.745	0	0	0	0	0	0	---	---	6
7	---	---	0 B	0.621	0	0	0.001	0	0	0	---	---	7
8	---	---	0 B	0.538	0	0	0.008	0	0	0	---	---	8
9	---	---	0 B	0.449B	0	0	0.004	0	0	0	---	---	9
10	---	---	0 B	0.334B	0	0	0.001	0	0	0	---	---	10
11	---	---	0 B	0.240B	0	0	0	0	0	0	---	---	11
12	---	---	0 B	0.218	0	0	0	0	0	0	---	---	12
13	---	---	0 B	0.190	0	0	0	0	0	0	---	---	13
14	---	---	0 B	0.156	0	0	0	0	0	0	---	---	14
15	---	---	0 B	0.135	0	0	0	0	0	0	---	---	15
16	---	---	0.001B	0.118	0	0	0	0	0	0	---	---	16
17	---	---	0.003B	0.117	0	0	0	0	0	0	---	---	17
18	---	---	0.006B	0.102	0	0	0	0	0	0	---	---	18
19	---	---	0.009B	0.077	0	0	0	0	0	0	---	---	19
20	---	---	0.007B	0.051	0	0	0	0	0	0	---	---	20
21	---	---	0.004B	0.030	0	0	0	0	0	0	---	---	21
22	---	---	0.002B	0.032	0	0	0	0	0	0	---	---	22
23	---	---	0 B	0.022	0	0	0	0	0	0	---	---	23
24	---	---	0 B	0.012	0	0	0	0	0	0	---	---	24
25	---	---	0.004B	0.008	0	0	0	0	0	0	---	---	25
26	---	---	0.030B	0.004	0	0	0	0	0	0	---	---	26
27	---	0B	0.099B	0.003	0	0	0	0	0	0	---	---	27
28	---	0B	0.421B	0.001	0	0	0	0	0	0	---	---	28
29	---		0.689B	0	0	0	0	0	0	0	---	---	29
30	---		0.900B	0	0	0	0	0	0	0	---	---	30
31	---		1.10 B		0		0	0		0A		---	31
TOTAL	---	---	3.275	10.236	0	0	0.014	0	0	0	---	---	TOTAL
MEAN	---	---	0.106	0.341	0	0	0.001	0	0	0	---	---	MEAN
MAX	---	---	1.10	1.35	0	0	0.008	0	0	0	---	---	MAX
MIN	---	---	0	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.055
MAXIMUM DAILY, 1.35B ON APR 02
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
1.47 AT 04:02 MST ON APR 02

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 17 42 N
LONG 112 02 54 W
DRAINAGE AREA, 46.9 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1.21
FEB	---	AUG	0
MAR	283	SEP	0
APR	884	OCT	0
MAY	0	NOV	---
JUN	0	DEC	---

TOTAL DISCHARGE, 1 170 dam³

VIXEN CREEK NEAR BELLOY - STATION NO. 07FD921

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	2.16 B	0.153	0	0.008	0	0	0	---	---	1
2	---	---	---	1.52 B	0.141	0.482	0.008	0	0	0	---	---	2
3	---	---	---	1.10 B	0.121	0.223	0.010	0	0	0	---	---	3
4	---	---	---	0.947B	0.102	0.024E	0.011	0	0	0B	---	---	4
5	---	---	0 B	0.809B	0.099	0.004E	0.009	0	0	0B	---	---	5
6	---	---	---	0.660	0.074	0 E	0.008	0	0	0B	---	---	6
7	---	---	---	0.500	0.064	0 E	0.007	0	0	0B	---	---	7
8	---	---	---	0.451B	0.082	0 E	0.006	0	0	0B	---	---	8
9	---	---	---	0.390B	0.087	0 E	0.006	0	0	0	---	---	9
10	---	---	---	0.353B	0.070	0.001E	0.005	0	0	0	---	---	10
11	---	---	---	0.255B	0.070	0.133E	0.004	0	0	0B	---	---	11
12	---	---	---	0.198	0.067	25.6	0.003	0	0	0B	---	---	12
13	---	---	---	0.150	0.047	26.8	0.002	0	0	0B	---	---	13
14	---	---	---	0.129	0.052	13.3	0	0	0	0B	---	---	14
15	---	---	---	0.112	0.043	6.08	0	0	0	0B	---	---	15
16	---	---	---	0.081	0.034	3.01	0.001	0	0	0B	---	---	16
17	---	---	---	0.223	0.033	1.22	0.002	0	0	0B	---	---	17
18	---	---	---	0.103	0.024	0.712	0.001	0	0	0B	---	---	18
19	---	---	---	0.055	0.013	0.466	0	0	0	0B	---	---	19
20	---	---	---	0.046	0.008	0.305	0	0	0	0B	---	---	20
21	---	---	---	0.058	0.005	0.220	0	0	0	0B	---	---	21
22	---	---	---	0.062	0.002	0.132	0	0	0	0B	---	---	22
23	---	---	---	0.060	0.001	0.061	0	0	0	0B	---	---	23
24	---	---	---	0.080	0	0.030	0	0	0	0B	---	---	24
25	---	---	---	0.104	0.002	0.016	0	0	0	0B	---	---	25
26	---	---	---	0.225	0.009	0.011	0	0	0	0B	---	---	26
27	---	---	---	0.272	0.002	0.009	0	0	0	0B	---	---	27
28	---	---	---	0.293	0	0.008	0	0	0	0B	---	---	28
29	---	---	4.17B	0.232	0	0.008	0	0	0	0B	---	---	29
30	---		4.45B	0.195	0	0.008	0	0	0	0B	---	---	30
31	---		3.46B		0		0	0		0B		---	31
TOTAL	---	---	---	11.823	1.405	78.863	0.091	0	0	0	---	---	TOTAL
MEAN	---	---	---	0.394	0.045	2.63	0.003	0	0	0	---	---	MEAN
MAX	---	---	---	2.16	0.153	26.8	0.011	0	0	0	---	---	MAX
MIN	---	---	---	0.046	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 26.8 ON JUN 13
MINIMUM DAILY, 0B ON MAR 05
MAXIMUM INSTANTANEOUS,
43.7 AT 14:08 MST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 48 30 N
LONG 118 09 20 W
DRAINAGE AREA, 125 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	7.86
FEB	---	AUG	0
MAR	---	SEP	0
APR	1 020	OCT	0
MAY	12.	NOV	---
JUN	6 810	DEC	---

WABAMUN CREEK NEAR DUFFIELD - STATION NO. 05DE003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.250B	1.54 B	0.471	1.23	0.399	0.251	0.316	0.020E	0.138	---	1
2	---	---	0.300B	0.521B	0.417	1.22	0.446	0.049	0.307	0.020E	0.124	---	2
3	---	---	0.400B	0.780B	0.441	0.815	6.65	0.026	0.237	0.[illegible]	0.090	---	3
4	---	---	0.430B	0.542B	0.480	0.847	11.0	0.020	0.128	0.[illegible]	0.058	---	4
5	---	---	0.420B	0.671B	0.538	1.51	12.1	0.016	0.108	0.121	0.048	---	5
6	---	---	0.413B	0.388B	0.581	1.32	10.1	0.015	0.072	0.049	0.051A	---	6
7	---	---	0.320B	0.350B	0.683	1.18	8.96	0.013	0.044	0.052	---	---	7
8	---	---	0.250B	0.300B	0.916	1.05	7.32	0.007E	0.041	0.059	---	---	8
9	---	---	0.160B	0.310B	0.950	0.978	5.35	0.005E	0.043	0.052	---	---	9
10	---	---	0.105B	0.260B	1.30	0.860	4.03	0.003E	0.037	0.071	---	---	10
11	---	---	0.070B	0.220B	1.26	0.952	3.36	0.003E	0.030E	0.204	---	---	11
12	---	---	0.040B	0.210B	1.15	1.16	2.91	0.003E	0.025E	0.194	---	---	12
13	---	---	0.030B	0.210B	1.10	1.25	2.67	0.003E	0.020E	0.153	---	---	13
14	---	---	0.020B	0.300B	1.10	1.20	2.28	0.003E	0.025E	0.144	---	---	14
15	---	---	0.211B	0.422	1.05	1.08	2.07	0.010E	0.025E	0.126	---	---	15
16	---	---	1.24 B	0.424	0.993	1.03	1.99	0.040A	0.020E	0.103	---	---	16
17	---	---	1.42 B	0.364	0.995	1.10	1.97	0.074	0.015E	0.273	---	---	17
18	---	---	1.80 B	0.385	1.03	0.936	1.80	0.054	0.015E	0.207	---	---	18
19	---	---	0.657B	0.368	1.05	0.842	1.69	0.052	0.015E	0.111	---	---	19
20	---	---	0.330B	0.329	1.25	0.696	1.53	0.045	0.020E	0.085	---	---	20
21	---	---	1.06 B	0.333	1.30	0.725	1.37	0.033	0.020E	0.062	---	---	21
22	---	---	1.72 B	0.380	1.77	0.637	1.25	0.079	0.015E	0.055	---	---	22
23	---	---	1.52 B	0.521	1.62	0.562	1.14	0.044	0.015E	0.059	---	---	23
24	---	---	0.839B	1.29	1.92	0.456	0.972	0.029A	0.014A	0.052	---	---	24
25	---	---	0.512B	1.45	2.26	0.376	0.926	0.020E	0.014E	0.051	---	---	25
26	---	---	0.534B	1.26	1.91	0.422	0.876	0.015E	0.020E	0.081	---	---	26
27	---	---	1.20 B	0.957	1.64	0.319	0.718	0.020E	0.020E	0.391	---	---	27
28	---	---	2.37 B	1.38	1.42	1.78	0.463	0.026A	0.020E	0.894	---	---	28
29	---	---	1.63 B	0.788	1.29	0.591	0.336	0.027E	0.020E	0.762	---	---	29
30	---		1.05 B	0.565	1.16	0.422	0.258	0.029A	0.020E	0.386	---	---	30
31	---		1.09 B		1.00		0.174	0.198		0.171		---	31
TOTAL	---	---	22.391	17.818	35.045	27.546	97.108	1.212	1.801	5.565	---	---	TOTAL
MEAN	---	---	0.722	0.594	1.13	0.918	3.13	0.039	0.060	0.180	---	---	MEAN
MAX	---	---	2.37	1.54	2.26	1.78	12.1	0.251	0.307	0.894	---	---	MAX
MIN	---	---	0.020	0.210	0.417	0.319	0.174	0.003	0.014	0.020	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.851
MAXIMUM DAILY, 12.1 ON JUL 05
MINIMUM DAILY, 0.003E ON AUG 10
MAXIMUM INSTANTANEOUS,
13.4 AT 09:43 MST ON JUL 05

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 27 42 N
LONG 114 22 00 W
DRAINAGE AREA, 513 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	8 390
FEB	---	AUG	105
MAR	1 930	SEP	156
APR	1 540	OCT	481
MAY	3 030	NOV	---
JUN	2 380	DEC	---

TOTAL DISCHARGE, 18 000 dam³

WABAMUN LAKE AT WABAMUN - STATION NO. 05DE002

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	724.623	724.638	724.678	724.654	724.709	---	---	---	---	1
2	724.558	724.568	724.588	---	---	---	---	---	724.670	724.590	724.550	724.550	2
3	724.558	---	---	---	---	724.673	724.734	724.704	---	724.590	---	---	3
4	724.548	724.568	724.578	724.628	724.658	---	724.769	---	724.665	---	724.545	724.545	4
5	724.563	---	---	---	---	724.688	724.789	724.699	724.665	---	---	724.550	5
6	724.570	724.578	724.583	724.633	724.658	724.681	724.789	---	---	---	724.540	---	6
7	724.568	724.568	---	---	724.660	---	724.799	724.699	724.655	724.590	724.540	724.550	7
8	---	---	---	724.633	724.660	724.673	724.799	724.699	---	---	---	---	8
9	724.568	724.578	---	---	724.668	---	---	---	724.655	724.580	724.540	724.560	9
10	---	---	---	724.638	724.650	724.668	724.789	724.699	---	724.585	---	---	10
11	---	724.578	724.588	---	724.648	---	724.789	---	724.645	---	724.540	724.555	11
12	---	---	---	---	---	724.689	724.779	724.699	724.655	724.580	---	724.550	12
13	---	724.583	724.593	724.638	724.648	724.689	724.779	---	---	---	724.540	---	13
14	---	724.582	---	---	---	724.694	---	724.654	724.645	724.575	724.540	724.550	14
15	---	---	---	724.638	724.648	724.684	724.769	724.649	---	---	---	---	15
16	---	724.583	724.603	---	---	---	---	724.660	724.630	724.570	724.530	724.550	16
17	---	---	---	724.638	---	724.679	724.769	724.659	---	---	---	---	17
18	---	724.583	724.603	724.638	724.648	---	---	---	724.640	---	724.535	724.550	18
19	---	---	---	---	---	724.679	724.754	724.659	724.640	724.560	---	724.550	19
20	---	724.588	724.608	724.643	724.648	724.679	724.749	724.650	---	---	724.535	---	20
21	---	724.588	---	---	---	---	---	724.655	724.620	724.550	724.535	724.550	21
22	---	---	---	724.648	724.658	724.669	724.744	724.670	---	---	---	---	22
23	---	724.588	724.613	---	724.663	---	---	---	724.615	724.550	724.535	724.550	23
24	---	---	---	724.653	---	724.654	724.744	724.655	---	---	---	---	24
25	724.560	724.583	724.608	724.658	724.673	---	724.744	---	724.608	---	724.535	724.565	25
26	724.568	---	---	724.658	---	724.669	---	724.640	724.605	---	---	724.565	26
27	---	724.588	724.608	724.658	724.673	724.659	724.734	---	---	---	724.550	---	27
28	724.568	---	724.613	---	---	---	---	724.630	---	724.550	724.560	---	28
29	---		724.620	724.663	724.668	724.659	724.719	724.630	---	---	724.555	---	29
30	724.573		724.618	---	724.668	---	---	---	724.600	724.545	724.550	724.560	30
31	724.568		724.620		---		724.716	724.670		724.550		---	31
MEAN	---	---	---	---	---	---	---	---	---	---	---	---	MEAN
MAX	---	---	---	---	---	---	---	---	---	---	---	---	MAX
MIN	---	---	---	---	---	---	---	---	---	---	---	---	MIN

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 53 33 24 N
LONG 114 29 28 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
355 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM
APPLY -1.506 m ADJUSTMENT TO CONVERT TO CANADIAN NATIONAL RAILWAYS DATUM

WABASCA RIVER AT WADLIN LAKE ROAD - STATION NO. 07JD002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	34.5B	22.8B	16.9B	23.2B	326	201	129	42.6A	23.1	16.6	17.6B	13.8 B	1
2	34.6B	22.3B	16.8B	23.6B	352	210	138	44.3	22.6	17.1	18.3B	13.5 B	2
3	34.6B	22.0B	16.9B	24.6B	380	203	146	39.2	21.9	18.7	17.8B	13.2 B	3
4	34.5B	21.9B	17.1B	25.5B	411	196	148	37.7	20.9	19.2	18.5B	13.4 B	4
5	34.2B	21.8B	16.9B	26.1B	441	193	148	36.5	20.6	20.0	17.6B	13.4 B	5
6	34.1B	21.6B	16.8B	27.8B	463	186	142	34.5	20.1	20.5	16.8B	13.6 B	6
7	33.4B	21.1B	16.8B	30.6B	473	177	136	32.7	19.7	20.5	16.1B	13.7 B	7
8	32.0B	20.6B	16.9B	32.3B	499	170	129	30.9	19.5	20.6	15.3B	13.6 B	8
9	30.0B	20.5B	17.0B	33.3B	515	162	125	29.2	19.4	20.6	15.2B	13.2 B	9
10	28.7B	20.4B	16.9B	34.4B	518	158	119	28.5	19.0	20.4	15.2B	13.4 B	10
11	28.1B	20.5B	17.4B	35.9B	503	157	112	28.0	18.7	20.2	15.1B	13.6 B	11
12	28.3B	20.5B	17.6B	36.6B	476	291	107	26.8	18.4	20.2	15.1B	14.0 B	12
13	28.8B	20.5B	17.8B	35.8B	444	384	103	27.1	18.3	20.2	15.1B	13.7 B	13
14	28.9B	20.5B	18.2B	34.7B	413	458	98.0□	26.0	18.2	20.4	14.8B	13.4 B	14
15	28.7B	20.3B	18.7B	34.7B	382	491	93.9	25.4	17.9	20.6	14.8B	12.9 B	15
16	28.1B	19.9B	19.1B	35.7B	357	476	90.2	24.7	17.7	20.6	15.3B	12.3 B	16
17	27.1B	19.5B	19.2B	36.4B	337	440	83.9	24.1	17.7	20.6	15.5B	12.0 B	17
18	26.4B	19.1B	19.6B	39.0B	321	393	79.5	23.4	18.2	21.0	14.5B	11.8 B	18
19	25.7B	18.8B	19.7B	55.3B	306	346	75.0	22.2	18.3	21.4	14.5B	11.3 B	19
20	25.4B	18.7B	20.0B	96.6B	293	310	71.6	21.3	18.2	21.3B	14.7B	10.9 B	20
21	25.0B	18.6B	20.2B	150 B	281	285	68.1	20.7	18.4	19.2B	15.3B	10.8 B	21
22	24.4B	18.2B	21.0B	360 B	271	260	64.8	20.5	18.6	17.9B	15.1B	10.5 B	22
23	24.1B	17.8B	21.5B	410 E	262	239	61.6	21.7	18.5	18.1B	14.8B	10.2 B	23
24	23.8B	17.5B	21.6B	393 A	252	217	58.6	22.5	18.2	17.6B	14.9B	10.0 B	24
25	23.7B	17.3B	21.6B	403	248	198	55.6	22.7	18.0	18.8B	14.8B	10.1 B	25
26	24.1B	17.2B	19.8B	381	253	180	52.3	22.8	17.5	18.5B	14.7B	10.0 B	26
27	24.3B	17.1B	20.6B	360	254	166	51.1	23.2	17.0	18.3B	14.7B	9.20B	27
28	24.2B	17.0B	22.0B	340	246	154	48.0A	24.1	16.9	18.8B	14.4B	8.80B	28
29	24.2B		22.5B	323	234	142	45.4A	24.0	17.0	19.1B	14.1B	8.90B	29
30	24.2B		22.9B	316	217	133	44.0A	24.6	16.8	18.3B	13.7B	9.00B	30
31	23.6B		23.0B		202		43.3A	23.8		17.8B		8.80B	31
TOTAL	871.9	554.0	593.0	4 158.3	10 930	7 578	2 866.9	852.7	565.3	603.1	463.9	367.00	TOTAL
MEAN	28.1	19.8	19.1	139	353	253	92.5	27.5	18.8	19.5	15.5	11.8	MEAN
MAX	34.8	22.8	23.0	410	518	491	148	42.6	23.1	21.4	18.5	14.0	MAX
MIN	23.6	17.0	16.8	23.2	202	133	43.3	20.5	16.8	16.6	13.7	8.80	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 83.3
MAXIMUM DAILY, 518 ON MAY 10
MINIMUM DAILY, 8.80B ON DEC 28
MAXIMUM INSTANTANEOUS,
522 AT 01:00 MST ON MAY 10

TYPE OF GAUGE - RECORDING
LOCATION - LAT 57 52 30 N
LONG 115 23 20 W
DRAINAGE AREA, 35 800 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	75 300	JUL	248 000
FEB	47 900	AUG	73 700
MAR	51 200	SEP	48 800
APR	359 000	OCT	52 100
MAY	944 000	NOV	40 100
JUN	655 000	DEC	31 700

TOTAL DISCHARGE, 2 630 000 dam³

WABASCA RIVER BELOW TROUT RIVER - STATION NO. 07JB002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	22.9B	14.3B	13.3B	26.7B	64.9	53.0	49.3	19.6	13.1	13.3	13.2 B	8.10B	1
2	22.9B	14.0B	13.5B	28.9B	67.2	51.5	48.1	18.9	13.2	13.4	12.8 B	7.89B	2
3	21.9B	14.1B	13.8B	31.8B	68.0	49.9	46.0	18.4	13.2	13.8	12.3 B	7.86B	3
4	20.7B	14.4B	13.9B	32.9B	68.9	48.3	44.8	17.9	13.1	13.6	11.4 B	7.84B	4
5	20.6B	14.3B	14.3B	33.3B	69.5	47.2	43.9	17.5	13.2	13.5	11.1 B	7.89B	5
6	20.7B	14.4B	14.7B	34.7B	69.6	45.1	43.8	17.1	13.1	13.4	10.9 B	8.07B	6
7	21.1B	14.4B	15.2B	35.6B	71.8	43.1	43.2	16.6	13.0	13.5	10.8 B	8.35B	7
8	20.9B	14.5B	15.7B	35.3B	75.1	41.6	42.0	16.2	12.9	13.5	9.76B	8.71B	8
9	20.3B	14.1B	16.2B	33.7B	77.2	39.3	40.4	15.7	12.8	13.9	9.73B	8.81B	9
10	20.0B	13.9B	16.7B	31.9B	77.3	37.7	39.2	15.3	12.8	13.9	9.88B	9.07B	10
11	19.3B	13.5B	16.9B	31.6B	77.0	41.8	37.7	15.0	12.9	13.8	9.82B	8.83B	11
12	18.8B	13.2B	17.4B	31.6B	76.4	59.9	36.5	14.8	12.7	13.9	10.0 B	8.53B	12
13	18.5B	13.3B	17.7B	31.6B	75.5	71.4	35.2	14.7	12.8	14.2	10.1 B	8.20B	13
14	18.4B	13.2B	18.3B	31.0B	74.3	72.4	34.0	14.2	12.8	14.1	10.5 B	8.02B	14
15	18.4B	12.8B	19.1B	31.4B	73.6	71.0	32.6	13.9	12.8	14.1	10.8 B	7.78B	15
16	18.1B	12.6B	19.5B	32.2B	72.7	70.0	31.4	13.7	12.8	14.2	11.0 B	7.54B	16
17	17.9B	12.5B	19.7B	32.6B	72.3	69.3	30.7	13.6	12.8	14.2	10.2 B	7.75B	17
18	17.4B	12.5B	20.1B	31.6B	70.8	69.3	29.6	13.4	12.8	14.2	10.1 B	7.54B	18
19	17.1B	12.4B	20.6B	32.9	69.1	69.4	28.8	13.3	12.7	14.1	9.64B	7.27B	19
20	17.1B	12.6B	18.4B	36.2	67.8	68.5	28.0	13.1	12.6	14.1	9.40B	7.24B	20
21	17.3B	12.7B	20.1B	36.9	66.6	66.8	27.3	13.0	12.6	13.8	9.40B	6.38B	21
22	17.2B	12.7B	20.8B	37.7	65.3	65.1	26.4	13.9	12.6	14.5	9.28B	6.28B	22
23	17.2B	12.7B	21.2B	39.5	64.1	62.6	25.7	14.4	12.5	13.9	8.98B	6.65B	23
24	17.1B	12.6B	21.3B	42.3	66.2	60.1	25.3	14.1	12.5	14.3	8.59B	6.80B	24
25	17.1B	12.7B	21.2B	52.0	66.2	57.7	24.3	14.0	12.5	14.9	8.17B	6.70B	25
26	16.0B	12.8B	21.4B	56.4	64.8	55.2	23.5	13.8	12.5	14.6	7.87B	6.50B	26
27	15.7B	12.7B	21.6B	57.4	62.5	53.9	23.0	13.7	13.2	14.1	7.96B	6.25B	27
28	15.2B	12.9B	21.8B	57.7	60.4	52.9	22.1	13.5	13.3	13.8	7.97B	6.03B	28
29	15.3B		22.5B	57.9	59.2	49.7	21.2	13.6	13.5	13.5	8.07B	6.05B	29
30	15.3B		23.7B	61.0	57.1	48.1	20.8	13.5	13.4	14.1	8.12B	5.80B	30
31	14.8B		25.3B		55.1		20.4	13.3		13.7B		5.55B	31
TOTAL	571.2	372.8	575.9	1 146.3	2 126.5	1 690.8	1 025.3	463.7	386.7	431.9	297.84	230.28	TOTAL
MEAN	18.4	13.3	18.6	38.2	68.6	56.4	33.1	15.0	12.9	13.9	9.93	7.43	MEAN
MAX	22.9	14.5	25.3	61.0	77.3	72.4	49.3	19.6	13.5	14.9	13.2	9.07	MAX
MIN	14.8	12.4	13.3	26.7	55.1	37.7	20.4	13.0	12.5	13.3	7.87	5.55	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 25.5
MAXIMUM DAILY, 77.3 ON MAY 10
MINIMUM DAILY, 5.55B ON DEC 31
MAXIMUM INSTANTANEOUS,
77.9 AT 00:30 MST ON MAY 10

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 19 27 N
LONG 113 47 10 W
DRAINAGE AREA, 14 300 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	49 400	JUL	88 600
FEB	32 200	AUG	40 100
MAR	49 800	SEP	33 400
APR	99 000	OCT	37 300
MAY	184 000	NOV	25 700
JUN	146 000	DEC	19 900

TOTAL DISCHARGE, 805 000 dam³

WABASH CREEK NEAR PIBROCH - STATION NO. 07BC007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.005B	1.97 B	0.258	0.003	0.021	0	0	0.080	---	---	1
2	---	---	0.005B	1.62 B	0.193	0.004	0.007	0	0	0.078	---	---	2
3	---	---	0.005B	1.68 B	0.148	0.001	0.029	0	0	0.077	---	---	3
4	---	---	0.005B	1.51 B	0.076	0.001	0.080	0	0	0.078	---	---	4
5	---	---	0.005B	1.28 B	0.074	0.001	0.154	0	0	0.080	---	---	5
6	---	---	0.005B	1.03 B	0.039	0.001	0.111	0	0	0.079	---	---	6
7	---	---	0.005B	0.694B	0.018	0.001	0.203	0	0	0.078	---	---	7
8	---	---	0.005B	0.386	0.066	0.001	0.222	0	0	0.101	---	---	8
9	---	---	0.002B	0.283	0.070	0.002	0.218	0	0	0.121	---	---	9
10	---	---	0 B	0.200	0.059	0.003	0.217	0	0	0.118	---	---	10
11	---	---	0 B	0.139	0.050	0.006	0.203	0	0	0.098	---	---	11
12	---	---	0.149B	0.058	0.035	0.008	0.185	0	0	0.113	---	---	12
13	---	---	0.407B	0.015	0.035	0.034	0.163	0	0	0.121	---	---	13
14	---	---	0.330B	0.010	0.029	0.087	0.152	0	0	0.102	---	---	14
15	---	---	0.244B	0.005	0.008	0.104	0.125	0	0	0.090	---	---	15
16	---	---	0.451B	0.003	0.005	0.107	0.114	0	0	0.087	---	---	16
17	---	---	0.613B	0.002	0.003	0.132	0.110	0	0	0.093	---	---	17
18	---	---	1.73 B	0.003	0.004	0.099	0.107	0	0	0.142	---	---	18
19	---	---	3.01 B	0.006	0.002	0.090	0.108	0	0	0.222	---	---	19
20	---	---	3.75 B	0.006	0.017	0.090	0.108	0	0	0.298	---	---	20
21	---	---	3.00 B	0.002	0.003	0.041	0.065	0	0	0.293	---	---	21
22	---	---	2.86 B	0.001	0.001	0.017	0.024	0	0	0.279	---	---	22
23	---	---	2.72 B	0.001	0.001	0.005	0.002	0	0	0.269	---	---	23
24	---	---	2.46 B	0.079	0.001	0.002	0.001	0	0	0.253	---	---	24
25	---	---	1.92 B	0.173	0.004	0.001	0.001	0	0	0.237	---	---	25
26	---	---	1.50 B	0.286	0.003	0.001	0.001	0	0.124	0.227	---	---	26
27	---	---	1.32 B	0.378	0.002	0.002	0.026	0	0.132	0.252	---	---	27
28	---	---	1.63 B	0.573	0.003	0.003	0.014	0	0.102	0.193	---	---	28
29	---	---	2.01 B	0.437	0.003	0.004	0.005	0	0.082	0.140A	---	---	29
30	---		1.88 B	0.352	0.003	0.008	0.002	0	0.081	0.120E	---	---	30
31	---		1.83 B		0.003		0	0		0.120E		---	31
TOTAL	---	---	33.856	13.182	1.216	0.859	2.778	0	0.521	4.609	---	---	TOTAL
MEAN	---	---	1.09	0.439	0.039	0.029	0.090	0	0.017	0.149	---	---	MEAN
MAX	---	---	3.75	1.97	0.258	0.132	0.222	0	0.132	0.298	---	---	MAX
MIN	---	---	0	0.001	0.001	0.001	0	0	0	0.077	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.233
MAXIMUM DAILY, 3.75B ON MAR 20
MINIMUM DAILY, 0B ON MAR 10

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 13 27 N
LONG 113 55 26 W
DRAINAGE AREA, 339 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	240
FEB	---	AUG	0
MAR	2 930	SEP	45.0
APR	1 140	OCT	398
MAY	105	NOV	---
JUN	74.2	DEC	---

TOTAL DISCHARGE, 4 930 dam³

WABATANISK CREEK AT HIGHWAY NO. 676 - STATION NO. 07GH005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.024B	0.258B	1.04	0.245	0.153	0.006A	0.011	0.003	0.017A	---	1
2	---	---	0.075B	0.383	0.993	0.241	0.091	0.005E	0.006	0.003	---	---	2
3	---	---	0.119B	0.419	0.994	0.218	0.123	0.005E	0.004	0.004	---	---	3
4	---	---	0.176B	0.419	0.966	0.211	0.130	0.004E	0.003	0.004	---	---	4
5	---	---	0.217B	0.364	0.913	0.211	0.092	0.012A	0.004	0.009	---	---	5
6	---	---	0.187B	0.362	0.929	0.272	0.067	0.046	0.004	0.010	---	---	6
7	---	---	0.184B	0.409	0.888	0.286	0.053	0.023	0.002	0.008	---	---	7
8	---	---	0.110B	0.400	0.908	0.241	0.041	0.013	0.003	0.008	---	---	8
9	---	---	0.088B	0.358	0.889	0.213	0.128	0.012	0.003	0.009	---	---	9
10	---	---	0.052B	0.397	0.837	0.187	0.117	0.010	0.002	0.015	---	---	10
11	---	---	0.026B	0.384	0.764	8.19	0.064	0.007	0.002	0.015	---	---	11
12	---	---	0.026B	0.278	0.703	78.1 A	0.056	0.006A	0.002	0.013	---	---	12
13	---	---	0.011B	0.327	0.639	54.7 A	0.056	0.005E	0.002	0.013	---	---	13
14	---	---	0.011B	0.418	0.594	17.4 A	0.036	0.005E	0.002	0.015	---	---	14
15	---	---	0.010B	0.737	0.563	5.89 A	0.031	0.004E	0.002	0.013	---	---	15
16	---	---	0.028B	0.655	0.541	3.22 A	0.032	0.004E	0.003	0.012	---	---	16
17	---	---	0.062B	0.706	0.499	1.86	0.050	0.003E	0.006	0.011	---	---	17
18	---	---	0.081B	0.888	0.470	1.03	0.037	0.002E	0.005	0.011	---	---	18
19	---	---	0.110B	1.04	0.445	0.745	0.028	0.002E	0.004	0.011	---	---	19
20	---	---	0.125B	0.992	0.434	0.491	0.022	0.002E	0.004	0.012	---	---	20
21	---	---	0.059B	1.02	0.462	0.365	0.018	0.002E	0.003	0.017	---	---	21
22	---	---	0.033B	1.12	0.465	0.292	0.015	0.002E	0.003	0.016	---	---	22
23	---	---	0.032B	1.25	0.499	0.230	0.015	0.002E	0.003	0.015	---	---	23
24	---	---	0.025B	1.43	0.443	0.190	0.013	0.002A	0.003	0.016	---	---	24
25	---	---	0.029B	1.92	0.410	0.162	0.011	0.002	0.002	0.017	---	---	25
26	---	---	0.023B	2.19	0.393	0.138A	0.010	0.002	0.002	0.021	---	---	26
27	---	0.019B	0.035B	1.78	0.366	0.094A	0.009	0.002	0.002	0.021	---	---	27
28	---	0.016B	0.080B	1.50	0.305	0.071A	0.008	0.001	0.002	0.018	---	---	28
29	---		0.148B	1.27	0.269	0.065	0.008	0.001	0.002	0.016	---	---	29
30	---		0.120B	1.10	0.249	0.061	0.007	0.005	0.002	0.017	---	---	30
31	---		0.181B		0.249		0.007	0.016		0.015		---	31
TOTAL	---	---	2.495	24.774	19.119	175.619	1.528	0.213	0.098	0.388	---	---	TOTAL
MEAN	---	---	0.081	0.826	0.617	5.85	0.049	0.007	0.003	0.013	---	---	MEAN
MAX	---	---	0.217	2.19	1.04	78.1	0.153	0.046	0.011	0.021	---	---	MAX
MIN	---	---	0.010	0.258	0.249	0.061	0.007	0.001	0.002	0.003	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.915
MAXIMUM DAILY, 78.1A ON JUN 12
MINIMUM DAILY, 0.001 ON AUG 28
MAXIMUM INSTANTANEOUS,
84.0 AT 13:00 MST ON JUN 12

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 25 30 N
LONG 117 21 30 W
DRAINAGE AREA, 127 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	132
FEB	---	AUG	18.4
MAR	216	SEP	8.47
APR	2 140	OCT	33.5
MAY	1 650	NOV	---
JUN	15 200	DEC	---

TOTAL DISCHARGE, 19 400 dam³

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARK

WAINSCOTT COULEE NEAR BROWNVALE - STATION NO. 07FD014

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	3.81	0.161	0.054	0.011	0	0	0	---	---	1
2	---	---	0 B	3.94	0.156	0.068	0.012	0	0	0	---	---	2
3	---	---	0 B	2.56	0.142	0.045	0.020	0	0	0	---	---	3
4	---	---	0 B	1.84	0.141	0.040	0.019	0	0	0	---	---	4
5	---	---	0 B	1.28	0.128	0.046	0.017	0	0	0	---	---	5
6	---	---	0 B	1.07	0.126	0.043	0.014	0	0	0	---	---	6
7	---	---	0 B	0.409B	0.123	0.042	0.011	0	0	0	---	---	7
8	---	---	0 B	0.062B	0.112	0.032	0.008	0	0	0	---	---	8
9	---	---	0 B	0.049B	0.103	0.027	0.012	0	0	0	---	---	9
10	---	---	0 B	0.094B	0.093	0.025	0.012	0	0	0	---	---	10
11	---	---	0 B	0.188B	0.088	0.082	0.010	0	0	0	---	---	11
12	---	---	0 B	0.167	0.083	0.198	0.007	0	0	0	---	---	12
13	---	---	0 B	0.171	0.080	0.212	0.005	0	0	0	---	---	13
14	---	---	0 B	0.205	0.081	0.222	0.003	0	0	0	---	---	14
15	---	---	0 B	0.223	0.082	0.168	0.002	0	0	0	---	---	15
16	---	---	0 B	0.201	0.079	0.128	0.003	0	0	0	---	---	16
17	---	---	0 B	0.195	0.089	0.097	0.004	0	0	0	---	---	17
18	---	---	0.001B	0.247	0.079	0.078	0.003	0	0	0	---	---	18
19	---	---	0.002B	0.252	0.070	0.064	0.003	0	0	0	---	---	19
20	---	---	0.005B	0.255	0.063	0.058	0.002	0	0	0	---	---	20
21	---	---	0.010B	0.229	0.056	0.045	0.001	0	0	0	---	---	21
22	---	---	0.020B	0.221	0.059	0.041	0.001	0	0	0	---	---	22
23	---	0B	0.014B	0.213	0.055	0.035	0	0	0	0	---	---	23
24	---	0B	0.011B	0.191	0.055	0.030	0	0	0	0	---	---	24
25	---	0B	0.008B	0.200	0.078	0.022	0	0	0	0	---	---	25
26	---	0B	0.015B	0.217	0.083	0.019	0	0	0	0	---	---	26
27	---	0B	0.027B	0.195	0.072	0.019	0	0	0	0	---	---	27
28	---	0B	1.59 B	0.173	0.063	0.016	0	0	0	0	---	---	28
29	---		4.50 B	0.168	0.058	0.015	0	0	0	0	---	---	29
30	---		5.95 B	0.164	0.054	0.013	0	0	0	0	---	---	30
31	---		4.38 B		0.057		0	0		0		---	31
TOTAL	---	---	16.533	19.189	2.769	1.984	0.180	0	0	0	---	---	TOTAL
MEAN	---	---	0.533	0.640	0.089	0.066	0.006	0	0	0	---	---	MEAN
MAX	---	---	5.95	3.94	0.161	0.222	0.020	0	0	0	---	---	MAX
MIN	---	---	0	0.049	0.054	0.013	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.166
MAXIMUM DAILY, 5.95B ON MAR 30
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
11.9B AT 19:00 MST ON MAR 29

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 01 37 N
LONG 117 56 08 W
DRAINAGE AREA, 149 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	15.6
FEB	---	AUG	0
MAR	1 430	SEP	0
APR	1 660	OCT	0
MAY	239	NOV	---
JUN	171	DEC	---

TOTAL DISCHARGE, 3 520 dam³

WAIPAROUS CREEK NEAR THE MOUTH - STATION NO. 05BG006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.680B	0.500B	0.440B	2.35 B	1.34	39.6	4.80	5.53	2.66	1.40	1.21	0.640B	1
2	0.720B	0.540B	0.430B	2.10 B	2.24	78.3	4.75	5.32	2.53	1.38	0.990B	0.700B	2
3	0.736B	0.520B	0.420B	1.90 B	2.66	28.6	5.87	5.48	2.45	1.36	0.870B	0.900B	3
4	0.650B	0.490B	0.410B	1.72 B	2.65	22.2	5.23	4.28	2.26	1.41	1.01 B	1.10 B	4
5	0.570B	0.460B	0.400B	1.55 B	3.29	18.5	4.73	3.81	2.18	1.70	0.900B	1.02 B	5
6	0.600B	0.470B	0.440B	1.45 B	3.99	15.3	5.24	3.51	2.07	1.60	0.840B	1.06 B	6
7	0.710B	0.460B	0.430B	1.36 B	2.61	13.5	7.36	3.32	1.97	1.47	0.940B	1.16 B	7
8	0.690B	0.450B	0.420B	0.900B	2.14	12.5	6.23	3.11	1.95	1.54	0.870B	1.22 B	8
9	0.670B	0.490B	0.410B	0.600B	2.09	11.5	5.01	2.99	1.94	1.63	0.780B	0.960B	9
10	0.630B	0.500B	0.530B	0.478B	2.03	11.9	4.40	2.89	1.86	1.73	0.620B	0.900B	10
11	0.520B	0.420B	0.470B	0.945B	2.17	11.4	4.09	2.79	1.79	1.71	0.600B	0.820B	11
12	0.620B	0.380B	0.460B	0.729B	2.28	9.24	3.90	2.98	1.91	1.60	1.16 B	0.780B	12
13	0.610B	0.330B	0.520B	1.01 B	2.39	9.31	3.70	3.22	2.16	1.48	0.840B	0.940B	13
14	0.570B	0.290B	0.556B	1.66 B	3.28	8.64	3.55	2.80	1.91	1.26B	0.740B	0.990B	14
15	0.540B	0.250B	0.540B	1.63 B	3.38	8.55	3.50	2.69	1.87	1.10B	0.704B	1.01 B	15
16	0.520B	0.220B	0.520B	1.38 B	2.78	10.0	3.48	2.76	1.81	1.13B	0.754B	0.910B	16
17	0.500B	0.200B	0.560B	1.62 B	2.95	12.4	3.03	8.02	1.76	1.16B	0.677B	0.975B	17
18	0.570B	0.200B	0.700B	1.83 B	3.65	9.05	3.22	7.64	1.74	1.30B	0.547B	0.840B	18
19	0.600B	0.230B	0.800B	2.09 B	3.59	7.98	4.43	6.50	1.73	1.10B	0.523B	0.540B	19
20	0.630B	0.277B	0.870B	2.38 B	3.32	7.77	3.78	4.71	1.83	1.00B	0.456B	0.460B	20
21	0.610B	0.320B	0.733B	2.22	3.40	7.36	3.41	4.02	1.72	1.32B	0.643B	0.440B	21
22	0.600B	0.330B	0.590B	2.02	2.92	7.68	3.12	3.57	1.64	1.27	0.550B	0.500B	22
23	0.580B	0.340B	0.440B	1.75	4.22	7.79	2.98	3.32	1.62	1.02B	0.470B	0.700B	23
24	0.540B	0.350B	0.460B	1.69	8.39	7.81	3.36	3.46	1.55	1.15B	0.420B	0.710B	24
25	0.510B	0.360B	0.500B	1.46	46.2	7.09	6.49	3.95	1.52	1.29	0.400B	0.670B	25
26	0.480B	0.340B	0.570B	1.36	41.0	6.10	7.10	5.50	1.47	1.32	0.720B	0.760B	26
27	0.450B	0.340B	0.659B	1.21	18.5	5.60	6.01	4.05	1.43	1.23	1.01 B	0.710B	27
28	0.420B	0.350B	1.20 B	1.09	13.2	5.48	5.74	3.44	1.44	1.22	1.08 B	0.500B	28
29	0.400B		2.10 B	1.01	22.2	4.98	4.79	3.20	1.42	1.17	1.14 B	0.260B	29
30	0.428B		2.00 B	0.935	22.5	4.96	4.29	2.98	1.40	1.18	0.880B	0.490B	30
31	0.450B		1.75 B		16.6		5.47	2.82		1.17		0.430B	31
TOTAL	17.804	10.407	21.328	44.427	253.96	411.09	143.06	124.66	55.59	41.40	23.344	24.095	TOTAL
MEAN	0.574	0.372	0.688	1.48	8.19	13.7	4.61	4.02	1.85	1.34	0.778	0.777	MEAN
MAX	0.736	0.540	2.10	2.38	46.2	78.3	7.36	8.02	2.66	1.73	1.21	1.22	MAX
MIN	0.400	0.200	0.400	0.478	1.34	4.96	2.98	2.69	1.40	1.00	0.400	0.260	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.21
MAXIMUM DAILY, 78.3 ON JUN 02
MINIMUM DAILY, 0.200B ON FEB 17
MAXIMUM INSTANTANEOUS,
150 AT 03:53 MST ON JUN 02

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 16 58 N
LONG 114 50 15 W
DRAINAGE AREA, 334 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 540	JUL	12 400
FEB	999	AUG	10 800
MAR	1 840	SEP	4 800
APR	3 840	OCT	3 580
MAY	21 900	NOV	2 020
JUN	35 500	DEC	2 080

TOTAL DISCHARGE, 101 000 dam³

WAMPUS CREEK NEAR HINTON - STATION NO. 07AF003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.170B	0.861	1.99	0.268	0.179	0.298	0.146	0.145B	---	1
2	---	---	---	0.182B	1.08	1.69	0.301	0.152	0.265	0.144	0.145B	---	2
3	---	---	---	0.194B	1.22	1.87	1.16	0.141	0.247	0.138	0.145B	---	3
4	---	---	---	0.206B	1.31	2.11	1.05	0.137	0.223	0.155	0.145B	---	4
5	---	---	---	0.218B	1.37	1.54	0.588	0.129	0.206	0.157	0.145B	---	5
6	---	---	---	0.226B	1.41	1.26	2.91	0.124	0.194	0.149B	0.145B	---	6
7	---	---	---	0.227B	1.12	1.04	2.97	0.114	0.180	0.144B	0.145B	---	7
8	---	---	---	0.220B	1.04	0.863	1.83	0.113	0.166	0.147B	0.145B	---	8
9	---	---	---	0.180B	1.04	0.689	1.37	0.111	0.168	0.185B	---	---	9
10	---	---	---	0.150B	0.998	0.592	1.04	0.107	0.158	0.275B	---	---	10
11	---	---	---	0.135B	0.940	0.997	0.808	0.104	0.151	0.233B	---	---	11
12	---	---	---	0.136B	0.904	3.35	0.646	0.147	0.156	0.204B	---	---	12
13	---	---	---	0.140B	1.02	6.24	0.601	0.204	0.163	0.177B	---	---	13
14	---	---	---	0.155B	1.15	3.92	0.461	0.156	0.149	0.177B	---	---	14
15	---	---	---	0.165B	1.10	2.63	0.391	0.138	0.141	0.171B	---	---	15
16	---	---	---	0.200B	1.04	1.88	0.430	0.140	0.276	0.168B	---	---	16
17	---	---	---	0.230B	1.24	1.46	0.357	0.237	0.720	0.164B	---	---	17
18	---	---	---	0.386B	1.63	1.19	0.336	0.798	0.328	0.162B	---	---	18
19	---	---	---	0.570B	1.41	0.992	0.366	0.338	0.259	0.158B	---	---	19
20	---	---	---	0.714B	1.47	0.813	0.287	0.225	0.224	0.156B	---	---	20
21	---	---	---	0.849B	1.59	0.649	0.252	0.185	0.203	0.154B	---	---	21
22	---	---	0.051B	0.797B	1.31	0.541	0.222	0.200	0.190	0.153B	---	---	22
23	---	---	0.063B	0.777B	1.17	0.483	0.202	0.516	0.180	0.152B	---	---	23
24	---	---	0.075B	0.763B	1.13	0.430	0.209	0.588	0.168	0.150B	---	---	24
25	---	---	0.087B	0.750B	1.68	0.396	0.218	0.393	0.164	0.148B	---	---	25
26	---	---	0.099B	0.737B	1.60	0.337	0.184	0.892	0.159	0.147B	---	---	26
27	---	---	0.111B	0.724B	1.28	0.357	0.237	0.533	0.155	0.147B	---	---	27
28	---	---	0.123B	0.572B	1.09	0.347	0.237	0.374	0.154	0.146B	---	---	28
29	---	---	0.134B	0.531B	0.991	0.362	0.198	0.307	0.152	0.146B	---	---	29
30	---		0.146B	0.634B	1.74	0.287	0.172	0.417	0.152	0.146B	---	---	30
31	---		0.158B		2.65		0.179	0.404		0.146B		---	31
TOTAL	---	---	---	11.938	39.584	41.305	20.560	8.603	6.349	5.044	---	---	TOTAL
MEAN	---	---	---	0.398	1.28	1.38	0.664	0.278	0.212	0.163	---	---	MEAN
MAX	---	---	---	0.849	2.65	6.24	2.97	0.892	0.720	0.275	---	---	MAX
MIN	---	---	---	0.135	0.861	0.287	0.172	0.104	0.141	0.138	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.623
MAXIMUM DAILY, 6.24 ON JUN 13
MINIMUM DAILY, 0.104 ON AUG 11
MAXIMUM INSTANTANEOUS,
8.11 AT 06:53 MST ON JUN 13

SUMMARY FOR THE MONTHS APR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 09 22 N
LONG 117 15 40 W
DRAINAGE AREA, 25.4 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 780
FEB	---	AUG	743
MAR	---	SEP	549
APR	1 030	OCT	436
MAY	3 420	NOV	---
JUN	3 570	DEC	---

TOTAL DISCHARGE, 11 500 dam³

WANDERING RIVER NEAR WANDERING RIVER - STATION NO. 07CA006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.419B	0.223B	0.209B	0.290B	35.7	5.43	1.51	0.595	0.116	0.005	0.011	0.073B	1
2	0.408B	0.218B	0.208B	0.355B	32.5	4.69	1.48	0.658	0.152	0.008	0.011	0.079B	2
3	0.406B	0.203B	0.204B	0.461B	29.3	4.32	1.73	0.514	0.144	0.010	0.011	0.086B	3
4	0.398B	0.207B	0.208B	0.575B	26.1	4.11	1.76	0.497	0.107	0.006	0.015	0.085B	4
5	0.388B	0.197B	0.210B	0.808B	23.4	3.90	1.54	0.465	0.111	0.009	0.019	0.082B	5
6	0.374B	0.210B	0.200B	1.02 B	21.6	3.49	1.72	0.444	0.096	0.006	0.021	0.081B	6
7	0.368B	0.204B	0.187B	1.20 B	20.1	3.35	1.65	0.435	0.105	0.004	0.021	0.069B	7
8	0.357B	0.206B	0.193B	1.45 B	19.8	3.24	1.51	0.339	0.084	0.004	0.020	0.066B	8
9	0.353B	0.200B	0.190B	1.66 B	20.4	2.90	1.42	0.287	0.070	0.007	0.020	0.063B	9
10	0.355B	0.191B	0.183B	1.81 B	21.6	2.83	1.43	0.267	0.077	0.030	0.021B	0.061B	10
11	0.366B	0.206B	0.183B	1.88 B	22.5	2.89	1.34	0.255	0.058	0.008	0.026B	0.067B	11
12	0.357B	0.245B	0.178B	1.92 B	22.9	3.26	1.42	0.266	0.085	0.005	0.038B	0.067B	12
13	0.311B	0.251B	0.179B	2.00 B	22.7	3.19	1.62	0.235	0.063	0.007	0.043B	0.065B	13
14	0.303B	0.235B	0.179B	2.07 B	22.8	2.92	1.74	0.167	0.051	0.007	0.034B	0.063B	14
15	0.311B	0.239B	0.185B	2.15 B	20.3	3.07	1.44	0.168	0.023	0.007	0.028B	0.064B	15
16	0.295B	0.227B	0.191B	2.10 B	18.8	3.40	1.32	0.193	0.029	0.006	0.026B	0.064B	16
17	0.287B	0.225B	0.201B	2.14 B	17.3	3.58	1.44	0.214	0.094	0.005	0.028B	0.073B	17
18	0.288B	0.226B	0.209B	2.27 B	15.6	3.54	1.28	0.210	0.025	0.004	0.030B	0.088B	18
19	0.268B	0.212B	0.215B	2.62 B	14.2	3.56	1.19	0.208	0.043	0.008	0.032B	0.087B	19
20	0.257B	0.204B	0.254B	3.72 B	13.1	3.39	1.11	0.197	0.041	0.006	0.043B	0.081B	20
21	0.242B	0.198B	0.254B	6.15 B	12.1	3.26	1.14	0.188	0.022	0.005	0.052B	0.088B	21
22	0.254B	0.199B	0.254B	9.67 B	11.0	2.88	0.984	0.211	0.013	0.007	0.054B	0.087B	22
23	0.250B	0.227B	0.241B	13.8 B	10.1	2.81	1.01	0.257	0.019	0.006	0.055B	0.088B	23
24	0.225B	0.214B	0.231B	17.9 B	9.79	2.42	0.922	0.181	0.037	0.005	0.064B	0.097B	24
25	0.219B	0.215B	0.230B	21.7	9.05	2.17	0.824	0.161	0.009	0.006	0.066B	0.097B	25
26	0.228B	0.222B	0.228B	26.2	8.44	2.02	0.861	0.156	0.006	0.015	0.060B	0.098B	26
27	0.227B	0.223B	0.220B	32.7	7.88	1.96	1.08	0.157	0.007	0.008	0.065B	0.144B	27
28	0.234B	0.213B	0.213B	37.7	7.18	1.67	0.913	0.160	0.007	0.074	0.070B	0.189B	28
29	0.226B		0.219B	39.4	6.55	1.61	0.791	0.130	0.011	0.009	0.072B	0.177B	29
30	0.221B		0.236B	38.2	6.12	1.44	0.724	0.151	0.007	0.008	0.075B	0.172B	30
31	0.213B		0.253B		5.71		0.647	0.171		0.010		0.171B	31
TOTAL	9.408	6.040	6.553	275.919	533.62	93.50	39.546	8.537	1.712	0.305	1.131	2.872	TOTAL
MEAN	0.304	0.216	0.211	9.20	17.2	3.12	1.28	0.275	0.057	0.010	0.038	0.093	MEAN
MAX	0.419	0.251	0.254	39.4	35.7	5.43	1.76	0.658	0.152	0.074	0.075	0.189	MAX
MIN	0.213	0.191	0.178	0.290	5.71	1.44	0.647	0.130	0.006	0.004	0.011	0.061	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.68
MAXIMUM DAILY, 39.4 ON APR 29
MINIMUM DAILY, 0.004 ON OCT 07
MAXIMUM INSTANTANEOUS,
39.7 AT 12:23 MST ON APR 29

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 11 57 N
LONG 112 27 58 W
DRAINAGE AREA, 1 110 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	813	JUL	3 420
FEB	522	AUG	738
MAR	566	SEP	148
APR	23 800	OCT	26.4
MAY	46 100	NOV	97.7
JUN	8 080	DEC	248

TOTAL DISCHARGE, 84 600 dam³

WAPITI RIVER NEAR GRANDE PRAIRIE - STATION NO. 07GE001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	40.7B	16.0B	13.1B	47.2B	82.0	803	219	78.3	41.4	25.4	34.5	17.8B	1
2	35.1B	14.5B	13.7B	48.6B	87.5	596	226	78.5	46.5	25.5	30.0B	17.4B	2
3	33.4B	13.0B	15.1B	48.9B	91.9	461	240	74.5A	46.4	24.9	25.4B	17.1B	3
4	27.6B	12.0B	18.6B	48.3B	104	480	474 A	71.3A	43.7	26.5	21.5B	18.0B	4
5	27.8B	11.5B	21.0B	51.7B	128	573	388	67.1A	39.7	28.6	20.5B	18.6B	5
6	28.0B	12.0B	22.6B	45.8B	173	502	336	62.8A	37.0	28.6	19.3B	18.5B	6
7	30.0B	13.0B	23.1B	43.2B	228	424	333	58.7A	35.2	27.6	17.5B	18.5B	7
8	31.1B	15.5B	23.4B	43.5B	194	377	292	55.7A	34.2	26.4	17.0B	18.0B	8
9	34.3B	17.0B	21.5B	39.6B	167	362	273	52.5	33.3	26.0	16.5B	18.5B	9
10	33.7B	16.8B	21.2B	36.6B	156	348	265 A	49.7	32.2	25.9	16.0B	19.0B	10
11	33.2B	15.5B	20.4B	33.5B	155	540	240 A	48.0	31.2	31.5	16.0B	19.2B	11
12	31.5B	13.4B	18.3B	30.5B	152	4 400A	226 A	48.8	30.6	39.1	16.5B	19.0B	12
13	29.2B	13.0B	17.5B	30.5B	152	3 660A	218	48.0	29.8	35.8	16.5B	19.1B	13
14	27.2B	13.2B	16.5B	38.3	168	1 900A	215	51.4	29.7	33.5	15.2B	19.5B	14
15	25.8B	13.4B	16.8B	42.6	168	1 240A	186	51.3	29.4	31.9	15.6B	18.6B	15
16	25.7B	13.2B	18.6B	46.0	162	1 000	159	50.7	29.3	30.2	17.6B	18.3B	16
17	25.8B	13.4B	20.5B	49.7	165	818	141	48.5	29.2	28.6	19.0B	20.3B	17
18	26.4B	13.6B	22.6B	53.3	185	643	130	52.1	32.5	27.5	19.8B	20.0B	18
19	26.6B	12.0B	29.9B	60.3	216	534	126	52.5	34.0	27.2	17.8B	18.1B	19
20	26.4B	11.5B	28.8B	72.8	231	459	118	49.2	32.3	26.4	18.4B	18.4B	20
21	26.0B	12.0B	27.0B	91.1	247	417	106	45.2	30.6	26.1	18.3B	15.9B	21
22	22.0B	13.2B	24.1B	110	257	403	97.5	43.1	29.0	26.3	17.5B	14.5B	22
23	17.0B	12.2B	22.5B	112	252	389	95.3	44.4	28.0	25.9	15.6B	14.9B	23
24	19.0B	12.0B	21.5B	120	253	380	95.9	43.7	27.4	25.3	15.7B	16.5B	24
25	17.4B	12.8B	21.4B	150	279	339	95.3	43.2	27.2	25.8	16.0B	17.5B	25
26	17.0B	12.8B	21.2B	147	409	308	96.7	40.0	27.0	33.2	16.2B	17.9B	26
27	17.7B	13.6B	24.0B	125	480	282	94.2	37.0	26.9	42.7	16.4B	17.9B	27
28	18.0B	13.3B	31.6B	106	470	256	92.4	35.0	26.7	40.6	17.0B	18.1B	28
29	16.0B		38.7B	89.6	460	239	86.3	33.1	26.2	38.9	17.0B	17.8B	29
30	14.5B		45.8B	81.6	477	223	84.1	32.2	25.3	38.6	17.5B	16.8B	30
31	15.0B		47.0B		625		82.5	34.6		37.8		15.8B	31
TOTAL	801.1	375.4	727.7	2 043.2	7 374.4	23 354	5 831.2	1 581.1	971.9	938.3	557.8	555.5	TOTAL
MEAN	25.8	13.4	23.5	68.1	238	778	188	51.0	32.4	30.3	18.6	17.9	MEAN
MAX	40.7	17.0	47.0	150	625	4 400	474	78.5	46.5	42.7	34.5	20.3	MAX
MIN	14.5	11.5	13.1	30.5	82.0	223	82.5	32.2	25.3	24.9	15.2	14.5	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 124
MAXIMUM DAILY, 4 400A ON JUN 12
MINIMUM DAILY, 11.5B ON FEB 05
MAXIMUM INSTANTANEOUS,
5 440 AT 15:30 MST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 04 20 N
LONG 118 48 10 W
DRAINAGE AREA, 11 300 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	69 200	JUL	504 000
FEB	32 400	AUG	137 000
MAR	62 900	SEP	84 000
APR	177 000	OCT	81 100
MAY	637 000	NOV	48 200
JUN	2 020 000	DEC	48 000

TOTAL DISCHARGE, 3 900 000 dam³

WASKAHIGAN RIVER NEAR THE MOUTH - STATION NO. 07GG001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.08 B	0.482B	0.541B	2.28B	6.64	18.6	4.31	0.980	0.855	0.548	0.836B	0.776B	1
2	1.06 B	0.482B	0.597B	3.34B	6.68	16.4	4.19	0.929	1.16	0.565	0.802B	0.720B	2
3	1.05 B	0.482B	0.686B	3.90B	6.69	13.0	8.82	0.861	1.25	0.558	0.793B	0.691B	3
4	1.01 B	0.476B	0.719B	4.26B	6.82	11.6	22.0	0.909	1.12	0.572	0.759B	0.683B	4
5	0.959B	0.502B	0.699B	3.65B	6.60	20.4	19.5	0.786	0.943	0.674	0.751B	0.700B	5
6	0.904B	0.540B	0.743B	3.17B	6.29	23.4	15.4	0.758	0.808	0.689	0.793B	0.700B	6
7	0.949B	0.534B	0.670B	3.65B	6.31	17.1	15.5	0.734	0.722	0.690	0.725B	0.650B	7
8	0.998B	0.534B	0.761B	3.84B	6.74	12.7	13.1	0.679	0.705	0.746	0.776B	0.620B	8
9	0.991B	0.534B	0.695B	3.23B	7.30	10.3	10.1	0.633	0.655	0.749	0.751B	0.620B	9
10	1.00 B	0.527B	0.553B	3.15B	7.05	8.75	7.89	0.668	0.617	0.783	0.725B	0.650B	10
11	0.985B	0.520B	0.512B	2.83B	6.93	12.3	6.35	0.576	0.588	0.819	0.725B	0.708B	11
12	0.945B	0.530B	0.537B	2.72B	6.46	135	5.24	0.551	0.562	0.937	0.759B	0.708B	12
13	0.958B	0.580B	0.535B	2.89B	6.24	153	4.48	0.532	0.550	1.01	0.776B	0.717B	13
14	0.898B	0.620B	0.600B	3.38B	6.32	105	3.80	0.507	0.553	0.995	0.793B	0.717B	14
15	0.871B	0.610B	0.662B	3.96	7.07	65.9	3.28A	0.501	0.556	0.928	0.819B	0.708B	15
16	0.892B	0.550B	0.620B	4.02	6.81	40.4	2.83A	0.651	0.560	0.822	0.853B	0.683B	16
17	0.906B	0.470B	0.585B	4.02	6.55	24.7	2.63A	0.805	0.619	0.763	0.870B	0.666B	17
18	0.910B	0.420B	0.608B	4.92	6.36	17.9	2.59	0.815	0.632	0.732	0.878B	0.640B	18
19	0.905B	0.400B	0.597B	6.04	6.38	13.5	2.57	0.865	0.937	0.740	0.844B	0.622B	19
20	0.897B	0.502B	0.612B	6.98	6.74	10.8	2.20	0.797	1.32	0.741	0.810B	0.622B	20
21	0.903B	0.546B	0.558B	7.05	7.16	8.83	1.98	0.737	1.11	0.691	0.768B	0.623B	21
22	0.862B	0.591B	0.575B	7.10	8.06	7.54	1.74A	0.668	0.948	0.649	0.751B	0.632B	22
23	0.853B	0.534B	0.578B	7.24	8.79	6.84	1.56A	0.598	0.851	0.630	0.734B	0.640B	23
24	0.861B	0.508B	0.569B	7.14	8.33	6.90	1.45A	0.553	0.768	0.647	0.717B	0.649B	24
25	0.819B	0.502B	0.559B	9.32	8.84	6.39	1.39	0.508	0.695	0.888	0.708B	0.649B	25
26	0.793B	0.508B	0.546B	11.5	13.9	5.71	1.27	0.489	0.632	0.862	0.717B	0.640B	26
27	0.793B	0.527B	0.572B	9.58	15.0	5.81	1.18	0.495	0.600	0.954	0.725B	0.632B	27
28	0.700B	0.536B	0.802B	7.97	12.0	6.10	1.15	0.497	0.581	0.907	0.751B	0.623B	28
29	0.649B		0.940B	6.89	9.99	5.37	1.14	0.485	0.621	0.833	0.793B	0.610B	29
30	0.597B		1.20 B	6.43	8.66	4.73	1.10	0.527	0.536	0.861B	0.802B	0.597B	30
31	0.521B		1.45 B		10.5		1.03	0.740		0.861B		0.585B	31
TOTAL	27.519	14.547	20.886	156.45	244.21	794.97	171.77	20.734	23.054	23.844	23.304	20.481	TOTAL
MEAN	0.888	0.520	0.674	5.22	7.88	26.5	5.54	0.669	0.769	0.769	0.777	0.661	MEAN
MAX	1.08	0.620	1.45	11.5	15.0	153	22.0	0.980	1.32	1.01	0.878	0.776	MAX
MIN	0.521	0.400	0.512	2.28	6.24	4.73	1.03	0.485	0.536	0.548	0.708	0.585	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.22
MAXIMUM DAILY, 153 ON JUN 13
MINIMUM DAILY, 0.400B ON FEB 19
MAXIMUM INSTANTANEOUS,
180 AT 17:00 MST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 45 03 N
LONG 117 12 20 W
DRAINAGE AREA, 1 040 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	2 380	JUL	14 800
FEB	1 260	AUG	1 790
MAR	1 800	SEP	1 990
APR	13 500	OCT	2 060
MAY	21 100	NOV	2 010
JUN	68 700	DEC	1 770

TOTAL DISCHARGE, 133 000 dam³

WASKASOO CREEK AT RED DEER - STATION NO. 05CC011

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.050B	3.29	0.315	1.29	0.738	0.228	0.099	0.011	---	---	1
2	---	---	0.060B	2.62	0.297	1.43	0.774	0.218	0.083	0.015	---	---	2
3	---	---	0.075B	2.01	0.571	5.39	3.90	0.185	0.067	0.017	---	---	3
4	---	---	0.080B	1.48	0.248	5.13	3.03	0.163	0.051	0.043	---	---	4
5	---	---	0.095B	1.17	0.245	12.0	3.85	0.146	0.041	0.097	---	---	5
6	---	---	0.110B	0.973E	0.183	14.3	3.70	0.144	0.040	0.059	---	---	6
7	---	---	0.080B	0.792	0.350	8.15	1.81	0.140	0.034E	0.042	---	---	7
8	---	---	0.050B	0.817	0.276	4.34	1.24	0.139E	0.028	0.025	---	---	8
9	---	---	0.030B	0.627E	0.197	2.43	1.03 E	0.138	0.026	0.023	---	---	9
10	---	---	0.018B	0.443	0.163	1.96	0.810	0.120E	0.024	0.021	---	---	10
11	---	---	0.015B	0.534	0.144	3.25	0.768	0.101	0.018	0.019	---	---	11
12	---	---	0.100B	0.534	0.169	11.0	0.657	0.101	0.140	0.019	---	---	12
13	---	---	0.215B	0.573	0.160	19.7	0.578	0.099	0.123E	0.018E	---	---	13
14	---	---	0.215B	0.619	0.160E	14.9	0.497	0.099	0.106E	0.016E	---	---	14
15	---	---	0.220B	0.630	0.160E	10.4 E	0.477	0.099	0.089E	0.015	---	---	15
16	---	---	0.460B	0.604	0.160	7.34 E	0.466	0.097	0.072E	0.015	---	---	16
17	---	---	0.849B	0.563	0.154	4.87 E	0.417	0.104	0.055E	0.015	---	---	17
18	---	---	1.43 B	0.588	0.178	3.26 E	0.392	0.127	0.038E	0.015	---	---	18
19	---	---	2.39 B	0.443	0.154	2.46 E	0.882	0.113	0.021	0.017	---	---	19
20	---	---	2.69 B	0.410	0.144	1.95 E	0.385	0.110	0.014E	0.022	---	---	20
21	---	---	1.59 B	0.403	0.186E	1.61	0.331	0.106	0.006	0.031	---	---	21
22	---	---	1.67 B	0.476E	0.229E	1.47	0.321	0.142	0.007E	0.025	---	---	22
23	---	0.024B	0.559B	0.549	0.271	1.31	0.312	0.150	0.007	0.021	---	---	23
24	---	0.023B	0.470B	0.500E	0.599	1.19	0.536	0.125E	0.007	0.017	---	---	24
25	---	0.022B	0.320B	0.450	0.599E	1.08	0.371	0.160	0.006	0.017E	---	---	25
26	---	0.020B	0.154B	0.428	0.599	0.856	0.318	0.150E	0.005	0.016	---	---	26
27	---	0.025B	0.347B	0.432	0.604	0.744	0.297	0.140	0.006	0.016	---	---	27
28	---	0.032B	0.977B	0.439	0.539	0.756	0.276	0.119	0.011	0.017E	---	---	28
29	---		2.65 B	0.392	0.530	0.744	0.253	0.125	0.011	0.018	---	---	29
30	---		3.89 B	0.364	0.663	0.756	0.236	0.108	0.011	0.018	---	---	30
31	---		3.60 E		0.424		0.248	0.103		0.007		---	31
TOTAL	---	---	25.459	24.153	9.371	145.066	29.903	4.129	1.248	0.729	---	---	TOTAL
MEAN	---	---	0.821	0.805	0.302	4.84	0.965	0.133	0.042	0.024	---	---	MEAN
MAX	---	---	3.89	3.29	0.663	19.7	3.90	0.228	0.140	0.097	---	---	MAX
MIN	---	---	0.015	0.364	0.144	0.744	0.236	0.097	0.005	0.007	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.980
MAXIMUM DAILY, 19.7 ON JUN 13
MINIMUM DAILY, 0.005 ON SEP 26
MAXIMUM INSTANTANEOUS,
22.9A ON JUN 13

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - MANUAL
LOCATION - LAT 52 16 07 N
LONG 113 47 52 W
DRAINAGE AREA, 494 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2 580
FEB	---	AUG	357
MAR	2 200	SEP	108
APR	2 090	OCT	63.0
MAY	810	NOV	---
JUN	12 500	DEC	---

TOTAL DISCHARGE, 20 700 dam³

REMARKS - MAXIMUM DISCHARGE WAS DERIVED FROM HIGH WATER MARKS. TIME WAS UNKNOWN

WASKATENAU CREEK NEAR WASKATENAU - STATION NO. 05EC002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	1.36 B	0.130	0.082	0.001	0.001	0.016	0	0.001A	---	1
2	---	---	0 B	1.34 B	0.160	0.066	0.002	0.001	0.018	0	---	---	2
3	---	---	0 B	1.41 B	0.180	0.051	0.242	0.001	0.014	0	---	---	3
4	---	---	0 B	1.41 B	0.180	0.030	0.412	0.001	0.009	0	---	---	4
5	---	---	0 B	1.56 B	0.180	0.015	0.288	0.001	0.006	0	---	---	5
6	---	---	0 B	1.70 B	0.180	0.004	0.231	0.001	0.003	0	---	---	6
7	---	---	0 B	1.58 B	0.180	0.060	0.190	0.001	0.001	0	---	---	7
8	---	---	0 B	1.35 B	0.180	0.240	0.173	0.001	0.001	0	---	---	8
9	---	---	0 B	1.13 B	0.180	0.114	0.152	0.001	0.003	0	---	---	9
10	---	---	0 B	0.839B	0.180	0.069	0.124	0.001	0.001	0	---	---	10
11	---	---	0 B	0.946	0.172	0.064	0.098	0.001	0.001	0	---	---	11
12	---	---	0 B	0.762	0.164	0.050	0.081	0.001	0.007	0	---	---	12
13	---	---	0 B	0.673	0.156	0.074	0.065	0.001	0.010	0	---	---	13
14	---	---	0 B	0.510	0.148	0.084	0.043	0.001	0.009	0	---	---	14
15	---	---	0 B	0.205	0.140	0.068	0.031	0.001	0.007	0	---	---	15
16	---	---	0 B	0.080	0.141	0.060	0.025	0.001	0.005	0.001	---	---	16
17	---	---	0 B	0.045	0.132	0.053	0.038	0.001	0.003	0.001	---	---	17
18	---	---	0 B	0.040	0.123	0.042	0.037	0.001	0.002	0.001	---	---	18
19	---	---	0 B	0.040	0.114	0.028	0.032	0.001	0.001	0.001	---	---	19
20	---	---	0 B	0.045	0.095	0.015	0.028	0.001	0	0.001	---	---	20
21	---	---	0 B	0.050	0.093	0.007	0.022	0.001	0	0.001	---	---	21
22	---	---	0 B	0.080	0.090	0.002	0.015	0.001	0	0.001	---	---	22
23	---	---	0 B	0.115	0.128	0.001	0.008	0.001	0	0.001	---	---	23
24	---	---	0 B	0.268	0.165	0.001	0.003	0.001	0	0.001	---	---	24
25	---	---	0 B	0.149	0.155	0.001	0.001	0.001	0	0.001	---	---	25
26	---	---	0 B	0.045	0.145	0.001	0.003	0.001	0	0.001	---	---	26
27	---	---	0 B	0.065	0.135	0.001	0.003	0.001	0	0.001	---	---	27
28	---	---	0 B	0.080	0.126	0.001	0.001	0.001	0	0.001	---	---	28
29	---	---	0 B	0.095	0.117	0.001	0.001	0.001	0	0.001	---	---	29
30	---		0 B	0.110	0.107	0.001	0.001	0.001	0	0.001	---	---	30
31	---		0.399B		0.097		0.001	0.010		0.001	---	---	31
TOTAL	---	---	1.76 B	18.082	4.473	1.286	2.352	0.040	0.117	0.016	---	---	TOTAL
MEAN	---	---	2.159	0.603	0.144	0.043	0.076	0.001	0.004	0.001	---	---	MEAN
MAX	---	---	0.070	1.70	0.180	0.240	0.412	0.010	0.018	0.001	---	---	MAX
MIN	---	---	1.76	0.040	0.090	0.001	0.001	0.001	0	0	---	---	MIN
			0										

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.116
MAXIMUM DAILY, 1.76B ON MAR 31
MINIMUM DAILY, 0B ON MAR 01

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 07 23 N
LONG 112 46 58 W
DRAINAGE AREA, 312 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	203
FEB	---	AUG	3.46
MAR	187	SEP	10.1
APR	1 560	OCT	1.38
MAY	386	NOV	---
JUN	111	DEC	---

TOTAL DISCHARGE, 2 460 dam³

WATERTON - BELLY DIVERSION CANAL - STATION NO. 05AD027

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0E	0E	0E	0	0	9.81	46.1	33.2	0.695	33.7	0	0E	1
2	0E	0E	0E	0	0	9.79	41.9	33.1	0.693	33.6	0	0E	2
3	0E	0E	0E	0	0	9.75	39.5	33.0	0.691	34.2	0	0E	3
4	0E	0E	0E	0	0	9.57	40.1	32.9	4.99	36.9	0	0E	4
5	0E	0E	0E	0	0	9.51	44.7	32.7	7.70	36.7	0	0E	5
6	0E	0E	0E	0	0	9.51	50.0	32.6	7.70	33.5	0	0E	6
7	0E	0E	0E	0	0	9.42	50.7	32.3	7.66	29.6	0A	0E	7
8	0E	0E	0E	0	0	9.40	50.7	32.1	7.65	26.0	0E	0E	8
9	0E	0E	0E	0	0	9.45	45.4	29.1	7.63	23.0	0E	0E	9
10	0E	0E	0E	0	0	9.48	41.3	26.5	9.12	19.3	0E	0E	10
11	0E	0E	0E	0	0	9.48	41.4	26.4	10.4	15.4	0E	0E	11
12	0E	0E	0E	0	0	13.8	41.4	26.2	10.3	12.3	0E	0E	12
13	0E	0E	0E	0	0	17.3	41.4	26.1	11.7	9.90	0E	0E	13
14	0E	0E	0E	0	0	17.3	41.4	25.9	12.7	7.96	0E	0E	14
15	0E	0E	0E	0	0	17.2	41.3	25.7	12.6	3.45	0E	0E	15
16	0E	0E	0E	0	0	17.3	39.0	25.6	12.5	0.416	0E	0E	16
17	0E	0E	0E	0	0	17.3	37.2	25.5	16.1	0.391	0E	0E	17
18	0E	0E	0E	0	0	17.3	37.1	25.4	20.2	0.360	0E	0E	18
19	0E	0E	0E	0	0	17.4	37.1	25.1	21.1	0.341	0E	0E	19
20	0E	0E	0E	0	0	17.6	37.1	24.9	20.8	0.318	0E	0E	20
21	0E	0E	0E	0	0	17.8	37.0	24.8	20.6	0.263	0E	0E	21
22	0E	0E	0E	0	0.402	23.0	36.8	24.7	20.4	0.227	0E	0E	22
23	0E	0E	0E	0	4.52	26.3	36.7	24.5	20.1	0.083	0E	0E	23
24	0E	0E	0E	0	8.45	26.5	36.5	24.4	21.1	0	0E	0E	24
25	0E	0E	0E	0	9.45	26.7	36.5	24.2	26.5	0	0E	0E	25
26	0E	0E	0E	0	9.54	33.6	36.5	24.0	33.1	0	0E	0E	26
27	0E	0E	0A	0	9.59	40.0	36.6	23.8	35.1	0	0E	0E	27
28	0E	0E	0	0	9.61	42.4	36.6	18.1	34.9	0	0E	0E	28
29	0E		0	0	9.71	45.8	36.6	13.9	34.3	0	0E	0E	29
30	0E		0	0	9.76	46.0	36.6	8.68	32.9	0	0E	0E	30
31	0E		0		9.81		34.7	0.671		0		0E	31
TOTAL	0	0	0	0	80.842	585.77	1 245.9	785.651	481.929	357.903	0	0	TOTAL
MEAN	0	0	0	0	2.61	19.5	40.2	25.3	16.1	11.5	0	0	MEAN
MAX	0	0	0	0	9.81	46.0	50.7	33.2	35.1	36.9	0	0	MAX
MIN	0	0	0	0	0	9.40	34.7	0.671	0.691	0	0	0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 9.69
MAXIMUM DAILY, 50.7 ON JUL 07
MINIMUM DAILY, 0E ON JAN 01

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 19 20 N
LONG 113 38 10 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED SINCE 1968

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	0	JUL	108 000
FEB	0	AUG	67 900
MAR	0	SEP	41 600
APR	0	OCT	30 900
MAY	6 980	NOV	0
JUN	50 600	DEC	0

TOTAL DISCHARGE, 306 000 dam³

WATERTON LAKE AT WATERTON PARK - STATION NO. 05AD025

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	1 278.445E1	279.021	1 279.678	1 279.566	1 278.967	1 278.487	1 278.322	1 278.611	1 278.625E	1
2	1 278.432A	---	---	1 278.465E1	278.982	1 279.593	1 279.565	1 278.937	1 278.479	1 278.327	1 278.668	1 278.616E	2
3	---	---	---	1 278.487A1	278.955	1 279.506	1 279.543	1 278.913	1 278.473	1 278.323	1 278.690	1 278.601A	3
4	---	---	---	1 278.525A1	278.940	1 279.443	1 279.488	1 278.884	1 278.469	1 278.346	1 278.687	1 278.575	4
5	---	---	---	1 278.564	1 278.970	1 279.370	1 279.423	1 278.855	1 278.464	1 278.401	1 278.684	1 278.556	5
6	---	---	---	1 278.592	1 279.087	1 279.315	1 279.386	1 278.831	1 278.459	1 278.454	1 278.681	1 278.547	6
7	---	---	---	1 278.609	1 279.248	1 279.299	1 279.347	1 278.802	1 278.448	1 278.483	1 278.663	1 278.529	7
8	---	---	---	1 278.631	1 279.325	1 279.296	1 279.303	1 278.778	1 278.436	1 278.494	1 278.642	1 278.522	8
9	---	---	1 278.350A1	278.643E1	279.309	1 279.299	1 279.263	1 278.759	1 278.432	1 278.505	1 278.644	1 278.502	9
10	---	---	---	1 278.654E1	279.265	1 279.343	1 279.245	1 278.742	1 278.423	1 278.509	1 278.693	1 278.508	10
11	---	---	---	1 278.654E1	279.217	1 279.452	1 279.238	1 278.727	1 278.416	1 278.529	1 278.799	1 278.517	11
12	---	---	---	1 278.653E1	279.176	1 279.242	1 279.240	1 278.711	1 278.410	1 278.533	1 278.878	---	12
13	---	1 278.400A	---	1 278.654	1 279.144	1 279.106	1 279.238	1 278.695	1 278.404	1 278.529	1 278.910	---	13
14	---	---	---	1 278.647	1 279.111	1 279.046	1 279.228	1 278.681	1 278.396	1 278.521	1 278.917	---	14
15	---	---	1 278.346A1	278.640	1 279.090	1 278.985A1	279.209	1 278.666	1 278.393	1 278.513	1 278.911	---	15
16	---	---	---	1 278.647	1 279.067	---	1 279.179	1 278.658	1 278.392	1 278.521	1 278.888	---	16
17	---	---	---	1 278.656	1 279.047	---	1 279.143	1 278.646	1 278.375	1 278.527	1 278.863	---	17
18	---	---	---	1 278.668	1 279.043	---	1 279.110	1 278.632	1 278.372	1 278.522	1 278.832	---	18
19	---	---	---	1 278.701	1 279.045	1 279.387A1	279.078	1 278.618	1 278.364	1 278.503	1 278.792	1 278.475A	19
20	---	---	---	1 278.761	1 279.052	1 279.464	1 279.045	1 278.629	1 278.367	1 278.497	1 278.767	---	20
21	---	---	---	1 278.861	1 279.059	1 279.554	1 279.007	1 278.632	1 278.363	1 278.505	1 278.742	---	21
22	---	---	---	1 278.973	1 279.064	1 279.591	1 278.969	1 278.616	1 278.359	1 278.477	1 278.719	---	22
23	1 278.405A	---	---	1 279.076	1 279.088	1 279.626	1 278.931	1 278.591	1 278.356	1 278.469	1 278.708	---	23
24	---	---	---	1 279.156	1 279.177	1 279.702	1 278.915	1 278.576	1 278.348	1 278.473	1 278.715A	---	24
25	---	---	---	1 279.191	1 279.320	1 279.746	1 278.998	1 278.572	1 278.341	1 278.456	1 278.718E	---	25
26	---	---	---	1 279.197	1 279.389	1 279.763	1 279.063	1 278.565	1 278.334	1 278.454	1 278.705E	---	26
27	---	---	---	1 279.178	1 279.386	1 279.747	1 279.082	1 278.553	1 278.331	1 278.455	1 278.692E	---	27
28	---	---	---	1 279.165A1	279.378	1 279.707	1 279.075	1 278.534	1 278.330	1 278.470	1 278.679E	---	28
29	---		1 278.365A1	279.126A1	279.424	1 279.632	1 279.055	1 278.518	1 278.326	1 278.473	1 278.661A	---	29
30	---		---	1 279.071	1 279.514	1 279.574	1 279.028	1 278.514	1 278.319	1 278.483	1 278.639A	---	30
31	---		---		1 279.642		1 278.998	1 278.498		1 278.528		---	31
MEAN	---	---	---	1 278.776	1 279.179	---	1 279.192	1 278.688	1 278.396	1 278.471	1 278.740	---	MEAN
MAX	---	---	---	1 279.197	1 279.642	---	1 279.566	1 278.967	1 278.487	1 278.533	1 278.917	---	MAX
MIN	---	---	---	1 278.445	1 278.940	---	1 278.915	1 278.498	1 278.319	1 278.322	1 278.611	---	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MAXIMUM DAILY, 1 279.763 ON JUN 26
MINIMUM DAILY, 1 278.319 ON SEP 30
MAXIMUM INSTANTANEOUS,
1 279.767 AT 10:05 MST ON JUN 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 03 21 N
LONG 113 54 32 W

A - MANUAL GAUGE

E - ESTIMATED

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

DRAINAGE AREA,
401 km²

WATERTON RESERVOIR - STATION NO. 05AD026

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1 179.974	1 179.898	1 179.888	1 179.976	1 180.354	1 181.794E1	183.767	1 184.238	1 180.523	1 175.526A1	170.249	1 172.124	1
2	1 179.969	1 179.912	1 179.887	1 179.990	1 180.378	1 181.671E1	183.919	1 184.172	1 180.569	1 175.103	1 170.294	1 172.286	2
3	1 179.951	1 179.922	1 179.883	1 180.003	1 180.394	1 181.547E1	184.229	1 184.103	1 180.611	1 174.678	1 170.311	1 172.437	3
4	1 179.934	1 179.925	1 179.882	1 180.016	1 180.375	1 181.424E1	184.501	1 184.010	1 180.635	1 174.225	1 170.339	1 172.607	4
5	1 179.920	1 179.923	1 179.891	1 180.032	1 180.374	1 181.301A1	184.691	1 183.901	1 180.603	1 173.735	1 170.363	1 172.757	5
6	1 179.931	1 179.924	1 179.900	1 180.044	1 180.430	1 181.210	1 184.731	1 183.774	1 180.557	1 173.293	1 170.368	1 172.876	6
7	1 179.951	1 179.923	1 179.907	1 180.051	1 180.499	1 181.100	1 184.728	1 183.638	1 180.505	1 172.915	1 170.388	1 173.006	7
8	1 179.966	1 179.922	1 179.906	1 180.051	1 180.541	1 181.030	1 184.756	1 183.489	1 180.452	1 172.590	1 170.406	1 173.181	8
9	1 179.970	1 179.922	1 179.902	1 180.063	1 180.608	1 181.094	1 184.756	1 183.336	1 180.399	1 172.315	1 170.412	1 173.341	9
10	1 179.983	1 179.931	1 179.908	1 180.057	1 180.820	1 181.165	1 184.780	1 183.213	1 180.338	1 172.045	1 170.431	1 173.463	10
11	1 179.962	1 179.940	1 179.904	1 180.065	1 180.909	1 181.305	1 184.794	1 183.086	1 180.259	1 171.827	1 170.470	1 173.582	11
12	1 179.952	1 179.935	1 179.908	1 180.074	1 180.912	1 181.493	1 184.806	1 182.958	1 180.172	1 171.664	1 170.566	1 173.694	12
13	1 179.995	1 179.924	1 179.911	1 180.090	1 180.900	1 181.524	1 184.817	1 182.821	1 180.084	1 171.542	1 170.706	1 173.784	13
14	1 179.997	1 179.921	1 179.900	1 180.110	1 180.868	1 181.512	1 184.821	1 182.678	1 179.974	1 171.442	1 170.844	1 173.870	14
15	1 179.993	1 179.920	1 179.905	1 180.116	1 180.840	1 181.487	1 184.818	1 182.529	1 179.854	1 171.361	1 170.980	1 173.925	15
16	1 179.973	1 179.907	1 179.905	1 180.109	1 180.822	1 181.515	1 184.805	1 182.386	1 179.737	1 171.292	1 171.090	1 174.016	16
17	1 179.958	1 179.904	1 179.905	1 180.114	1 180.796	1 181.527	1 184.797	1 182.235	1 179.605	1 171.228	1 171.177	1 174.070	17
18	1 179.948	1 179.909	1 179.908	1 180.313	1 180.779	1 182.436	1 184.419	1 181.364	1 178.369	1 170.901	1 171.337	1 174.372	23
19	1 179.942	1 179.903	1 179.900	1 180.121	1 180.772	1 181.558	1 184.770	1 182.094	1 179.416	1 171.168	1 171.247	1 174.127	18
20	1 179.942	1 179.898	1 179.927	1 180.166	1 180.765	1 181.881	1 184.678	1 181.789	1 178.980	1 171.030	1 171.318	1 174.232	19
21	1 179.940	1 179.896	1 179.939	1 180.205	1 180.766	1 182.116	1 184.615	1 181.655	1 178.782	1 170.957	1 171.311	1 174.285	21
22	1 179.951	1 179.903	1 179.927	1 180.257	1 180.765	1 182.336	1 184.526	1 181.514	1 178.571	1 170.888	1 171.321	1 174.336	22
23	1 179.946	1 179.907	1 179.908	1 180.313	1 180.779	1 182.436	1 184.419	1 181.364	1 178.369	1 170.901	1 171.337	1 174.372	23
24	1 179.937	1 179.907	1 179.898	1 180.358	1 180.866	1 182.572	1 184.303	1 181.217	1 178.158	1 170.716	1 171.353	1 174.414	24
25	1 179.936	1 179.907	1 179.908	1 180.384	1 181.126	1 182.754	1 184.259	1 181.059	1 177.913	1 170.632A1	171.332	1 174.463	25
26	1 179.941	1 179.902	1 179.914	1 180.398	1 181.353	1 182.947	1 184.327	1 180.900	1 177.573	1 170.575E1	171.310	1 174.512	26
27	1 179.923	1 179.892	1 179.923	1 180.398	1 181.470	1 183.168	1 184.370	1 180.740	1 177.217A1	170.518E1	171.335	1 174.562	27
28	1 179.901	1 179.889	1 179.934	1 180.405	1 181.500	1 183.341	1 184.385	1 180.590	1 176.791	1 170.462E1	171.544	1 174.606	28
29	1 179.884		1 179.938	1 180.383	1 181.688	1 183.503	1 184.370	1 180.507	1 176.402A1	170.405E1	171.755	1 174.653	29
30	1 179.887		1 179.951	1 180.358	1 181.892	1 183.655	1 184.339	1 180.440	1 175.971E1	170.348E1	171.949	1 174.692	30
31	1 179.889		1 179.959		1 181.917A		1 184.286	1 180.472		1 170.291A		1 174.725	31
MEAN	1 179.947	1 179.913	1 179.911	1 180.162	1 180.879	1 181.922	1 184.545	1 182.349	1 179.274	1 171.829	1 170.927	1 173.780	MEAN
MAX	1 179.997	1 179.940	1 179.959	1 180.405	1 181.917	1 183.655	1 184.821	1 184.238	1 180.635	1 175.526	1 171.949	1 174.725	MAX
MIN	1 179.884	1 179.889	1 179.882	1 179.976	1 180.354	1 181.030	1 183.767	1 180.440	1 175.971	1 170.291	1 170.249	1 172.124	MIN

WATER LEVELS IN METRES

SUMMARY FOR THE YEAR 1990

MEAN, 1 178.785
MAXIMUM DAILY, 1 184.821 ON JUL 14
MINIMUM DAILY, 1 170.249 ON NOV 01
MAXIMUM INSTANTANEOUS,
1 184.829 AT 17:22 MST ON JUL 14

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 19 18 N
LONG 113 40 52 W

A - MANUAL GAUGE

E - ESTIMATED

REGULATED SINCE 1965

DRAINAGE AREA,
1 270 km²

WATER LEVELS ARE REFERRED TO GEODETIC SURVEY OF CANADA DATUM

WATERTON RIVER NEAR GLENWOOD - STATION NO. 05AD028

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	8.50B	4.05B	7.00B	9.65	40.5	119	21.2	3.61	3.58	2.12	7.07	1.70 B	1
2	7.80B	4.30B	6.75B	10.2	46.0	118	14.7	3.60	3.67	2.08	7.66	1.69 B	2
3	7.55B	5.00B	6.60B	11.4	48.4	112	2.79	3.61	3.70	2.11	12.0	1.70 B	3
4	7.63B	5.90B	6.40B	12.6	46.1	103	2.51	3.60	3.68	2.07	12.1	1.90 B	4
5	7.00B	6.15B	6.19	13.3	44.7	83.0	4.25	3.60	3.58	2.29	12.2	1.99 B	5
6	6.60B	6.12B	6.05	13.8	48.9	67.7	10.1	3.58	3.52	2.21	12.1	2.00 B	6
7	6.80B	6.15B	6.08	14.5	58.0	63.4	7.81	3.54	3.47	2.16	12.1	1.99 B	7
8	7.10B	6.17B	6.37	15.2	65.3	54.0	2.47	3.56	3.48	2.09	12.1	1.80 B	8
9	7.45B	6.21B	6.34	15.0 B	52.4	42.6	2.36	3.48	3.55	2.69	12.0	1.65 B	9
10	7.50B	6.35B	6.30	15.2 B	42.7	44.1	2.36	3.47	3.49	7.42	12.1	1.50 B	10
11	7.30B	6.50B	6.36	16.5	49.9	46.5	2.28	3.41	3.49	7.33	12.1	1.49 B	11
12	6.70B	5.75B	6.51	17.2	51.2	54.2	2.25	3.45	3.52	7.22	12.1	1.50 B	12
13	7.05B	5.36B	6.68	18.1	50.1	62.8	2.23	3.47	3.63	7.22	12.7	1.51 B	13
14	7.35B	5.45B	6.41	19.1	48.3	59.5	2.17	3.50	3.65	7.25	14.2	1.40 B	14
15	7.60B	5.50B	6.22	20.2	46.0	48.8	2.20	3.54	3.68	9.39	14.6	1.30 B	15
16	7.65B	5.40B	6.37	20.2	44.5	39.3	2.21	3.66	3.65	13.2	15.6	1.18 B	16
17	7.60B	5.75B	6.53	20.2	42.8	39.4	2.21	3.66	3.70	13.2	15.6	1.07 B	17
18	7.45B	6.00B	6.46	20.2	41.4	37.1	2.16	3.73	3.81	13.1	15.6	1.00 B	18
19	7.30B	6.30B	6.67	20.9	40.5	32.4	2.36	3.69	3.77	13.1	15.6	0.970B	19
20	7.20B	6.60B	7.00B	22.8	40.0	36.2	2.38	3.66	3.68	13.1	15.6	0.950B	20
21	7.25B	6.75B	7.20B	26.1	39.6	38.3	2.28	3.58	2.31	13.0	15.8 B	0.960B	21
22	7.30B	6.80B	7.30B	30.9	39.3	45.4	2.23	3.53	2.18	12.9	15.6 B	1.00 B	22
23	7.35B	6.65B	6.40B	36.5	44.3	52.2	2.28	3.57	2.10	13.0	15.8	1.01 B	23
24	7.41B	6.62B	6.60B	41.9	30.8	53.3	2.36	4.44	2.08	12.9	15.5 B	1.03 B	24
25	7.27B	6.60B	6.80B	45.5	41.9	55.5	4.54	3.86	2.06	12.9	14.5 B	1.06 B	25
26	7.17B	6.70B	7.58	48.0	55.3	49.9	3.89	3.78	2.10	12.8	14.1 B	1.09 B	26
27	6.00B	6.81B	7.65	48.5	62.8	39.1	3.59	3.65	2.07	12.8	8.65B	1.12 B	27
28	5.20B	6.95B	7.73	50.5	65.3	37.7	3.61	3.55	2.09	12.8	2.87B	1.14 B	28
29	4.30B		7.92	48.4	59.6	27.4	3.62	3.53	2.08	12.8	1.89B	1.16 B	29
30	4.05B		8.21	44.8	108	21.0	3.61	3.48	2.12	12.9	1.79B	1.20 B	30
31	4.00B		8.91		119		3.62	3.54		7.80		1.20 B	31
TOTAL	214.43	168.89	211.59	747.35	1 623.6	1 682.8	128.63	111.63	93.49	267.75	361.63	42.260	TOTAL
MEAN	6.92	6.03	6.83	24.9	52.4	56.1	4.15	3.60	3.12	8.64	12.1	1.36	MEAN
MAX	8.50	6.95	8.91	50.5	119	119	21.2	4.14	3.81	13.2	15.8	2.00	MAX
MIN	4.00	4.05	6.05	9.65	30.8	21.0	2.16	3.41	2.06	2.07	1.79	0.950	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE YEAR 1990

MEAN, 15.5
MAXIMUM DAILY, 119 ON MAY 31
MINIMUM DAILY, 0.950B ON DEC 20
MAXIMUM INSTANTANEOUS,
123 AT 13:50 MST ON MAY 30

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 26 35 N
LONG 113 28 10 W
DRAINAGE AREA, 1 630 km²

B - ICE CONDITIONS

REGULATED SINCE 1966

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	18 500	JUL	11 100
FEB	14 600	AUG	9 640
MAR	18 300	SEP	8 080
APR	64 600	OCT	23 100
MAY	140 000	NOV	31 200
JUN	145 000	DEC	3 650

TOTAL DISCHARGE, 488 000 dam³

WATERTON RIVER NEAR WATERTON PARK - STATION NO. 05AD003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	6.11	5.70	3.90	5.95	27.9	88.9	71.1	25.4	6.56	2.95	7.98	8.51	1
2	6.22	5.26B	3.71	6.90	26.8	79.7	70.8	23.7	6.38	3.11	9.27	8.13	2
3	5.51	5.08B	3.66	8.27	25.3	69.6	70.1	22.3	6.18	3.13	10.8	8.16B	3
4	5.35	5.16	3.66	9.54	25.0	63.5	63.4	20.8	6.14	3.79	10.4	8.09B	4
5	5.15B	5.61	3.59	10.5	27.1	55.6	56.6	19.5	6.05	4.62	9.86	8.25B	5
6	5.67	5.04	3.79	11.1	34.8	49.9	53.3	18.4	5.90	5.68	10.7	8.60B	6
7	6.11	4.98	3.82	11.6	43.1	48.4	49.8	16.7	5.78	6.29	9.57	8.75B	7
8	6.33	4.80	3.91	11.9	46.4	48.5	45.8	15.5	5.37	6.69	9.05	7.15B	8
9	6.46	5.00	4.03	12.6	47.6	48.2	42.8	14.8	5.26	7.30	9.54	6.15B	9
10	6.45	5.24	3.99	12.7	43.8	52.2	40.7	14.0	5.17	7.07	10.1	6.15B	10
11	7.59	4.99	3.97	12.5	40.1	67.7	40.3	13.3	5.02	7.41	12.7	6.18B	11
12	8.50	5.11	4.13	12.8	37.5	71.4	40.4	12.9	4.89	7.78	15.0	6.04B	12
13	7.09	4.92	4.48	13.0	35.5	65.1	40.5	12.1	4.81	7.46	17.9	5.75B	13
14	6.92	4.92B	4.63	12.5	33.8	58.7	39.8	11.6	4.62	7.26	17.6	5.42B	14
15	7.08	5.06B	4.48	12.3	32.4	52.6	38.6	11.1	4.53	7.06	17.9	4.87B	15
16	8.32	4.68	4.39	12.5	31.1	48.7	36.6	10.9	4.71	7.07	16.9	4.27B	16
17	8.52	4.59	4.00	13.0	30.0	47.5	34.5	10.6	4.55	7.36	15.7	5.37B	17
18	7.37B	4.53	4.22	13.9	29.8	50.5	32.3	10.3	4.12	7.65	14.8	5.62B	18
19	6.51	4.71	4.37	15.1	30.0	56.3	30.7	10.0	3.83	6.70	13.8	5.44B	19
20	6.27	4.89	4.61	17.5	30.4	63.5	28.9	11.1	3.87	6.73	12.5	5.30B	20
21	6.04	4.41	4.56	21.6	31.4	72.3	26.8	10.9	3.79	7.41	12.1	5.25B	21
22	6.02	4.37	4.68	26.8	31.1	76.4	24.9	10.6	3.71	6.21	12.1	5.18B	22
23	5.81	3.97	4.66	31.3	32.7	80.6	23.1	9.54	3.85	6.03	12.3	5.11B	23
24	6.16	3.93	4.72	35.8	39.2	88.5	25.4	8.95	3.56	6.22	10.9	5.12B	24
25	6.06	4.08	4.84	37.3	52.5	93.0	27.4	8.68	3.34	6.19	11.7	5.13B	25
26	5.42	3.88	4.97	37.3	57.1	94.3	32.1	8.49	3.04	5.87	11.1	5.06B	26
27	5.09	3.85	4.88	36.2	56.0	92.4	32.7	8.28	2.98	5.75	10.5	4.88B	27
28	5.90	4.00	4.92	35.4	56.0	88.0	31.7	7.89	2.95	5.91	10.3	4.73B	28
29	7.01		5.13	32.8	64.2	79.9	30.2	7.44	3.04	6.02	10.2 B	4.73B	29
30	6.23		5.25	29.8	76.6	73.0	28.5	7.39	2.86	6.38	9.12	4.78B	30
31	5.89		5.34		86.5		27.0	7.00		6.58		4.80B	31
TOTAL	195.08	132.76	135.29	560.46	1 263.7	2 024.9	1 233.8	400.16	136.58	191.68	362.39	186.97	TOTAL
MEAN	6.29	4.74	4.36	18.7	40.8	67.5	39.8	12.9	4.55	6.18	12.1	6.03	MEAN
MAX	8.52	5.70	5.34	37.3	86.5	94.3	71.1	25.4	6.56	7.98	17.9	8.75	MAX
MIN	3.09	3.85	3.59	5.95	25.0	47.5	22.4	7.00	2.86	2.95	7.98	4.27	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 18.7
MAXIMUM DAILY, 94.3 ON JUN 26
MINIMUM DAILY, 2.86 ON SEP 30
MAXIMUM INSTANTANEOUS,
95.1 AT 10:15 MST ON JUN 26

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 06 50 N
LONG 113 50 20 W
DRAINAGE AREA, 614 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	16 900	JUL	107 000
FEB	11 500	AUG	34 600
MAR	11 700	SEP	11 800
APR	48 400	OCT	16 600
MAY	109 000	NOV	31 300
JUN	175 000	DEC	16 200

TOTAL DISCHARGE, 590 000 dam³

WEILLER CREEK NEAR WETASKIWIN - STATION NO. 05FA024

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.690B	0.009	0.019	0.003	0.003	0.001	0	---	---	1
2	---	---	0 B	0.680B	0.008	0.012	0.002	0.004	0.001	0.001	---	---	2
3	---	---	0 B	0.660B	0.008	0.010	0.680	0.041	0.001	0.001	---	---	3
4	---	---	0 B	0.614	0.009	0.009	0.983	0.006	0.001	0.001	---	---	4
5	---	---	0 B	0.478	0.008	0.149	0.247	0.003	0.001	0.002	---	---	5
6	---	---	0 B	0.342	0.007	0.031	0.589	0.003	0.001	0.002	---	---	6
7	---	---	0.001B	0.221	0.008	0.010	0.884	0.003	0.001	0.002	---	---	7
8	---	---	0.003B	0.166	0.023	0.007	0.649	0.002	0.001	0.002	---	---	8
9	---	---	0.001B	0.138	0.014	0.005	0.575	0.002	0.001	0.002	---	---	9
10	---	---	0.003B	0.100	0.010	0.005	0.576	0.002	0.001	0.002	---	---	10
11	---	---	0.004B	0.068	0.009	0.057	0.491	0.002	0	0.002	---	---	11
12	---	---	0.006B	0.054	0.007	0.460	0.357	0.002	0	0.002	---	---	12
13	---	---	0.008B	0.069	0.007	0.133	0.239	0.002	0	0.002	---	---	13
14	---	---	0.010B	0.028	0.006	0.136	0.169	0.002	0	0.002	---	---	14
15	---	---	0.020B	0.021	0.006	0.006	0.117	0.002	0	0.002	---	---	15
16	---	---	0.060B	0.017	0.006	0.004	0.163	0.002	0	0.002	---	---	16
17	---	---	0.100B	0.013	0.005	0.004	0.204	0.002	0	0.002	---	---	17
18	---	---	0.200B	0.012	0.005	0.004	0.063	0.002	0	0.003	---	---	18
19	---	---	0.295B	0.012	0.005	0.058	0.023	0.002	0	0.012	---	---	19
20	---	---	0.280B	0.010	0.005	0.008	0.013	0.002	0	0.007	---	---	20
21	---	---	0.250B	0.032	0.005	0.004	0.014	0.001	0	0.005	---	---	21
22	---	---	0.225B	0.076	0.005	0.003	0.011	0.001	0	0.004	---	---	22
23	---	---	0.200B	0.118	0.005	0.003	0.004	0.001	0	0.004	---	---	23
24	---	---	0.215B	0.164	0.011	0.002	0.031	0.001	0	0.004	---	---	24
25	---	---	0.250B	0.044	0.045	0.002	0.003	0.001	0	0.004	---	---	25
26	---	0B	0.430B	0.024	0.025	0.002	0.016	0.001	0	0.004	---	---	26
27	---	0B	1.11 B	0.013	0.009	0.002	0.018	0.001	0	0.004	---	---	27
28	---	0B	2.10 B	0.012	0.006	0.005	0.010	0.001	0	0.004	---	---	28
29	---		2.30 B	0.011	0.005	0.004	0.004	0.001	0	0.004	---	---	29
30	---		1.34 B	0.012	0.005	0.003	0.004	0.001	0	0.128	---	---	30
31	---		0.702B		0.018		0.003	0.001		0.008A		---	31
TOTAL	---	---	10.113	4.899	0.304	1.157	7.145	0.100	0.010	0.224	---	---	TOTAL
MEAN	---	---	0.326	0.163	0.010	0.039	0.231	0.003	0	0.007	---	---	MEAN
MAX	---	---	2.30	0.690	0.045	0.460	0.983	0.041	0.001	0.128	---	---	MAX
MIN	---	---	0	0.010	0.005	0.002	0.002	0.001	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.098
MAXIMUM DAILY, 2.30B ON MAR 29
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
4.32 AT 19:54 MST ON JUL 04

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 57 28 N
LONG 113 16 45 W
DRAINAGE AREA, 235 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	617
FEB	---	AUG	8.64
MAR	874	SEP	0.864
APR	423	OCT	19.4
MAY	26.3	NOV	---
JUN	100	DEC	---

TOTAL DISCHARGE, 2 070 dam³

REMARKS - PEAK DISCHARGE WAS CAUSED BY A BEAVER DAM BREAK

WEST ARROWWOOD CREEK NEAR ARROWWOOD - STATION NO. 05BM014

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	0 B	0.787B	0.183	0.011	0.014	0.003	0	0	0	0	---	1
2	---	0 B	1.70 B	0.169	0.010	0.011	0.002	0	0	0	0A	---	2
3	---	0 B	2.66 B	0.147	0.010	0.011	0.001	0	0	0	---	---	3
4	---	0 B	3.24 B	0.129	0.009	0.011	0	0	0	0	---	---	4
5	---	0 B	3.96 B	0.116	0.007	0.009	0	0	0	0	---	---	5
6	---	0 B	4.15 B	0.108	0.007	0.008	0	0	0	0	---	---	6
7	---	0 B	3.10 B	0.098	0.005	0.009	0.004	0	0	0	---	---	7
8	---	0 B	2.52 B	0.086	0.004	0.010	0.004	0	0	0	---	---	8
9	---	0 B	1.76 B	0.070B	0.004	0.010	0.005	0	0	0	---	---	9
10	---	0 B	1.71 B	0.060B	0.004	0.010	0.006	0	0	0	---	---	10
11	---	0 B	1.08 B	0.070	0.004	0.008	0.005	0	0	0	---	---	11
12	---	0 B	0.434B	0.063	0.004	0.023	0.004	0	0	0	---	---	12
13	---	0 B	0.935D	0.053	0.004	0.032	0.002	0	0	0	---	---	13
14	---	0 B	0.670B	0.048	0.004	0.028	0	0	0	0	---	---	14
15	---	0 B	0.707	0.039	0.004	0.023	0	0	0	0	---	---	15
16	---	0 B	0.616	0.034	0.003	0.016	0	0	0	0	---	---	16
17	---	0 B	0.758	0.028	0.002	0.011	0	0	0	0	---	---	17
18	---	0 B	0.746	0.024	0.002	0.013	0	0	0	0	---	---	18
19	---	0 B	0.716	0.024	0.002	0.016	0	0	0	0	---	---	19
20	---	0 B	0.809	0.024	0.002	0.016	0	0	0	0	---	---	20
21	---	0 B	0.666	0.022	0.003	0.013	0	0	0	0	---	---	21
22	---	0 B	0.417B	0.021	0.002	0.010	0	0	0	0	---	---	22
23	0 B	0.363B	0.435B	0.020	0.002	0.010	0	0	0	0	---	---	23
24	0 B	0.405B	0.409B	0.021	0.003	0.010	0	0	0	0	---	---	24
25	0.001B	0.293B	0.393	0.020	0.007	0.009	0	0	0	0	---	---	25
26	0.001B	0.328B	0.387	0.017	0.013	0.009	0	0	0	0	---	---	26
27	0 B	0.408B	0.275	0.016	0.008	0.008	0	0	0	0	---	---	27
28	0 B	0.437B	0.237	0.017	0.006	0.007	0	0	0	0	---	---	28
29	0 B		0.212	0.016	0.006	0.005	0	0	0	0	---	---	29
30	0 B		0.209	0.014	0.017	0.005	0	0	0	0	---	---	30
31	0 B		0.198		0.025		0	0	0	0		---	31
TOTAL	---	2.234	36.896	1.757	0.194	0.375	0.036	0	0	0	---	---	TOTAL
MEAN	---	0.080	1.19	0.059	0.006	0.013	0.001	0	0	0	---	---	MEAN
MAX	---	0.437	4.15	0.183	0.025	0.032	0.006	0	0	0	---	---	MAX
MIN	---	0	0.198	0.014	0.002	0.005	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.152
MAXIMUM DAILY, 4.15B ON MAR 06
MINIMUM DAILY, 0B [illegible] FEB 01
MAXIMUM INSTANTANEOUS,
4.64 AT 23:50 MST ON MAR 05

SUMMARY FOR THE MONTHS FEB TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 45 50 N
LONG 113 14 00 W
DRAINAGE AREA, 775 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	3.11
FEB	193	AUG	0
MAR	3 190	SEP	0
APR	152	OCT	0
MAY	16.8	NOV	---
JUN	32.4	DEC	---

TOTAL DISCHARGE, 3 590 dam³

WEST ARROWWOOD CREEK NEAR ENSIGN - STATION NO. 05BM018

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	0 B	0.901B	0.001	0	0.002	0	0	0	0	---	---	1
2	---	0 B	0.413B	0.001	0	0.002	0	0	0	0	---	---	2
3	---	0 B	0.232B	0.001	0.001	0.002	0	0	0	0	---	---	3
4	---	0 B	0.163B	0.001	0.001	0.002	0	0	0	0	---	---	4
5	---	0 B	0.093B	0.001	0	0.002	0	0	0	0	---	---	5
6	---	0 B	0.026B	0.001	0	0.001	0	0	0	0	---	---	6
7	---	0 B	0.004B	0.001	0	0.001	0	0	0	0	---	---	7
8	---	0 B	0.004B	0.001	0	0.002	0	0	0	0	---	---	8
9	---	0 B	0.003B	0.001	0	0.002	0	0	0	0	---	---	9
10	---	0 B	0.002B	0.001	0	0.001	0	0	0	0	---	---	10
11	---	0 B	0.002B	0.001	0	0.001	0	0	0	0	---	---	11
12	---	0 B	0.001B	0.001	0	0.001	0	0	0	0	---	---	12
13	---	0 B	0.001B	0.002	0	0.002	0	0	0	0	---	---	13
14	---	0 B	0.001B	0.002	0	0.002	0	0	0	0	---	---	14
15	---	0 B	0.001B	0.002	0	0.002	0	0	0	0	---	---	15
16	---	0 B	0.002B	0.002	0	0.002	0	0	0	0	---	---	16
17	---	0 B	0.002B	0.002	0	0.002	0	0	0	0	---	---	17
18	---	0 B	0.002B	0.001	0	0.001	0	0	0	0	---	---	18
19	---	0 B	0.002B	0.001	0	0.001	0	0	0	0	---	---	19
20	---	0 B	0.002B	0.001	0	0.001	0	0	0	0	---	---	20
21	---	0 B	0.001B	0.001	0	0.001	0	0	0	0	---	---	21
22	---	0 B	0.001B	0.001	0	0.001	0	0	0	0	---	---	22
23	0B	0 B	0.001B	0	0	0	0	0	0	0	---	---	23
24	0B	0 B	0.001B	0	0	0	0	0	0	0	---	---	24
25	0B	0 B	0 B	0	0.002	0	0	0	0	0	---	---	25
26	0B	0.029B	0 B	0	0.002	0	0	0	0	0	---	---	26
27	0B	0.052B	0 B	0	0.002	0	0	0	0	0	---	---	27
28	0B	0.481B	0.001B	0	0.002	0	0	0	0	0	---	---	28
29	0B		0.001B	0	0.004	0	0	0	0	0	---	---	29
30	0B		0.001B	0	0.008	0	0	0	0	0A	---	---	30
31	0B		0.001B		0.004		0	0		0E	---	---	31
TOTAL	---	0.562	1.865	0.027	0.026	0.034	0	0	0	0E		---	TOTAL
MEAN	---	0.020	0.060	0.001	0.001	0.001	0	0	0	0	---	---	MEAN
MAX	---	0.481	0.901	0.002	0.008	0.002	0	0	0	0	---	---	MAX
MIN	---	0	0	0	0	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.009
MAXIMUM DAILY, 0.901B ON MAR 01
MINIMUM DAILY, 0B ON FEB 01
MAXIMUM INSTANTANEOUS,
2.67B AT 20:59 MST ON FEB 28

SUMMARY FOR THE MONTHS FEB TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 30 50 N
LONG 113 20 35 W
DRAINAGE AREA, 29.8 km²

A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	0
FEB	48.5	AUG	0
MAR	161	SEP	0
APR	2.33	OCT	0
MAY	2.25	NOV	---
JUN	2.94	DEC	---

TOTAL DISCHARGE, 217 dam³

WEST PRAIRIE RIVER NEAR HIGH PRAIRIE - STATION NO. 07BF002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.436B	0.223B	0.160B	2.99B	9.00E	5.62	1.49	1.69	0.462	0.204	0.572B	0.160B	1
2	0.360B	0.223B	0.174B	3.84B	10.3 E	5.43	1.79	1.35	0.422	0.211	0.501B	0.167B	2
3	0.330B	0.216B	0.181B	5.19B	10.7 E	5.42	1.41	1.10	2.73	0.213	0.475B	0.160B	3
4	0.320B	0.209B	0.195B	6.45B	9.50E	4.77	2.44	0.822	3.40	0.212	0.488B	0.174B	4
5	0.330B	0.181B	0.223B	7.32B	9.00E	4.43	4.57	0.606	3.03	0.217	0.410B	0.160B	5
6	0.330B	0.174B	0.238B	6.43B	11.5 E	4.69	5.29	0.522	2.73	0.219	0.390B	0.188B	6
7	0.330B	0.167B	0.278B	5.97B	12.5 E	5.36	4.63	0.448	2.20	0.225	0.475B	0.246B	7
8	0.330B	0.167B	0.330B	5.48B	13.0 E	5.37	4.07	0.365	2.01	0.232	0.527B	0.238B	8
9	0.340B	0.160B	0.350B	5.46B	11.5 E	4.73A	3.83 A	0.279	1.71	0.238	0.514B	0.216B	9
10	0.350B	0.160B	0.360B	4.87B	9.60E	4.27A	3.58 A	0.245	1.39	0.270	0.449B	0.195B	10
11	0.350B	0.154B	0.350B	4.64B	8.40E	4.92A	3.36	0.191	1.22	0.339	0.350B	0.188B	11
12	0.360B	0.142B	0.350B	4.85B	8.00E	40.7	3.23	0.165	1.09	0.382	0.330B	0.181B	12
13	0.360B	0.142B	0.360B	5.50B	7.80E	110	2.77	0.121	1.02	0.432	0.400B	0.174B	13
14	0.360B	0.142B	0.370B	6.09B	7.20E	102	2.20	0.098	0.983	0.727	0.475B	0.181B	14
15	0.350B	0.136B	0.380B	5.97B	6.60E	53.3	1.83	0.074	0.722	1.29	0.462B	0.188B	15
16	0.340B	0.142B	0.423B	6.03B	6.00E	31.1	1.59	0.047	0.676	1.49	0.410B	0.181B	16
17	0.340B	0.148B	0.540B	5.92	6.10E	19.5	1.51	0.053	0.639	1.46	0.350B	0.174B	17
18	0.330B	0.142B	0.754B	6.30	6.20E	14.5	1.29	0.067	0.547	1.39	0.302B	0.167B	18
19	0.320B	0.148B	0.862B	8.97	5.90E	12.1	1.46	0.075	0.507	1.25	0.262B	0.154B	19
20	0.320B	0.148B	0.844B	12.4	5.80E	9.89	1.55	0.084	0.482	1.11	0.230B	0.142B	20
21	0.320B	0.142B	0.772B	14.7	7.20E	8.11	1.54	0.093	0.448	1.36	0.216B	0.148B	21
22	0.320B	0.130B	0.994B	14.2	9.46A	6.83	1.38	0.119	0.391	1.05	0.202B	0.154B	22
23	0.310B	0.130B	1.13 B	14.3	14.4	5.89	1.19	0.136	0.385	0.909	0.195B	0.148B	23
24	0.340B	0.130B	0.975B	15.3	15.3	5.04	1.16	0.156	0.380	1.00	0.188B	0.136B	24
25	0.340B	0.136B	0.937B	22.4	12.9	4.31	0.967	0.161	0.301	1.02	0.181B	0.124B	25
26	0.320B	0.142B	0.918B	23.5 E	11.8	3.69	0.759	0.120	0.266	0.975B	0.188B	0.118B	26
27	0.262B	0.148B	0.899B	16.4 E	10.7 A	3.06	0.754	0.090	0.267	0.994B	0.202B	0.112B	27
28	0.278B	0.154B	0.862B	12.5 E	9.17A	2.52	0.842	0.094	0.258	1.01 B	0.202B	0.106B	28
29	0.230B		1.17 B	11.5 E	7.82A	1.91	0.702	0.198	0.250	1.09 B	0.181B	0.118B	29
30	0.208B		1.62 B	10.5 E	6.92A	1.53	1.26	0.366	0.213	1.01 B	0.167B	0.112B	30
31	0.223B		2.25 B		5.86A		2.05	0.502		0.918B		0.106B	31
TOTAL	10.057	4.436	20.249	275.97	286.13	490.79	67.524	10.437	31.129	23.447	10.294	5.016	TOTAL
MEAN	0.324	0.158	0.653	9.20	9.23	16.4	2.18	0.337	1.04	0.756	0.343	0.162	MEAN
MAX	0.436	0.223	2.25	23.5	15.3	110	5.29	1.69	3.40	1.49	0.572	0.246	MAX
MIN	0.208	0.130	0.160	2.99	5.80	1.53	0.702	0.047	0.213	0.204	0.167	0.106	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.38
MAXIMUM DAILY, 110 ON JUN 13
MINIMUM DAILY, 0.047 ON AUG 16
MAXIMUM INSTANTANEOUS,
135 AT 23:59 MST ON JUN 13

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 26 50 N
LONG 116 29 30 W
DRAINAGE AREA, 1 160 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	869	JUL	5 830
FEB	383	AUG	902
MAR	1 750	SEP	2 690
APR	23 800	OCT	2 030
MAY	24 700	NOV	889
JUN	42 400	DEC	433

TOTAL DISCHARGE, 107 000 dam³

WEST WHITEMUD CREEK NEAR IRETON - STATION NO. 05DF007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	0.480	0.156	0.004	0	0	0	0	---	---	1
2	---	---	0.001B	0.400	0.146	0.014	0	0	0	0	---	---	2
3	---	---	0.005B	0.350	0.139	0.007	0.935	0	0	0	---	---	3
4	---	---	0.010B	0.313	0.122	0.003	3.81	0	0	0	---	---	4
5	---	---	0.025B	0.240	0.104	0	2.14	0	0	0	---	---	5
6	---	---	0.057B	0.188	0.089	0	1.61	0	0A	0	---	---	6
7	---	---	0.070B	0.145	0.079	0.002	2.61	0	0	0	---	---	7
8	---	---	0.080B	0.111	0.078	0.001	1.53	0	0	0	---	---	8
9	---	---	0.090B	0.080	0.071	0.001	0.851	0	0	0	---	---	9
10	---	---	0.100B	0.075	0.067	0.009	0.568	0	0	0	---	---	10
11	---	---	0.095B	0.070	0.061	0.002	0.394	0	0	0	---	---	11
12	---	---	0.090B	0.077	0.059	0	0.266	0	0	0	---	---	12
13	---	---	0.090B	0.087	0.057	0.028	0.187	0	0	0	---	---	13
14	---	---	0.100B	0.095	0.049	0.219	0.113	0	0	0	---	---	14
15	---	---	0.110B	0.091	0.039	0.248	0.071	0	0	0	---	---	15
16	---	---	0.120B	0.085	0.033	0.152	0.070	0	0	0	---	---	16
17	---	---	0.150B	0.080	0.026	0.096	0.088	0	0	0	---	---	17
18	---	---	0.175B	0.077	0.022	0.047	0.061	0	0	0	---	---	18
19	---	---	0.200B	0.079	0.017	0.028	0.045	0	0	0	---	---	19
20	---	---	0.300B	0.081	0.024	0.015	0.034	0	0	0	---	---	20
21	---	---	0.420B	0.078	0.028	0.004	0.027	0	0	0	---	---	21
22	---	---	0.200B	0.078	0.016	0	0.021	0	0	0	---	---	22
23	---	---	0.100B	0.119	0.002	0	0.013	0	0	0	---	---	23
24	---	---	0.110B	0.374	0.022	0	0.006	0	0	0	---	---	24
25	---	---	0.140B	0.410	0.052	0	0.003	0	0	0	---	---	25
26	---	---	0.173B	0.329	0.109	0	0.003	0	0	0	---	---	26
27	---	---	0.220B	0.257	0.077	0	0.003	0	0	0	---	---	27
28	---	0B	0.300B	0.219	0.053	0	0.001	0	0A	0	---	---	28
29	---		0.400B	0.189	0.028	0	0	0	0	0	---	---	29
30	---		0.500B	0.167	0.026	0	0	0	0	0	---	---	30
31	---		0.550		0.011		0	0		0A 0E	---	---	31
TOTAL	---	---	4.981	5.424	1.862	0.885	15.460	0	0	0	---	---	TOTAL
MEAN	---	---	0.161	0.181	0.060	0.030	0.499	0	0	0	---	---	MEAN
MAX	---	---	0.550	0.480	0.156	0.248	3.81	0	0	0	---	---	MAX
MIN	---	---	0	0.070	0.002	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.117
MAXIMUM DAILY, 3.81 ON JUL 04
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
4.05 AT 04:46 MST ON JUL 04

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 13 20 N
LONG 113 41 23 W
DRAINAGE AREA, 63.7 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	1 340
FEB	---	AUG	0
MAR	430	SEP	0
APR	469	OCT	0
MAY	161	NOV	---
JUN	76.5	DEC	---

TOTAL DISCHARGE, 2 480 dam³

REMARKS - RECORDS PRIOR TO 1989 WERE PUBLISHED UNDER WHITEMUD CREEK (WEST BRANCH) NEAR IRETON.

WESTERN IRRIGATION DISTRICT CANAL NEAR CHESTERMERE LAKE - STATION NO. 05BM003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.135	8.84	7.45	14.4	16.9	9.40	1.38	0.040	---	1
2	---	---	---	0.134	4.40	8.41	12.8	15.9	9.28	0.269	0.041	---	2
3	---	---	---	0.133	3.88	8.31	12.6	16.5	9.36	0.134	0.042	---	3
4	---	---	---	0.131	6.98	9.59	13.7	16.3	9.17	0.099	0.040	---	4
5	---	---	---	0.130	6.91	8.78	13.3	16.7	7.85	0.113	0.038	---	5
6	---	---	---	0.130	4.07	7.28	14.1	17.3	7.82	0.257	0.037	---	6
7	---	---	---	0.130	5.11	8.35	16.0	16.3	8.88	0.184	0.036	---	7
8	---	---	---	0.130	5.89	8.37	13.1	15.9	8.88	0.128	0.036	---	8
9	---	---	---	0.125	6.54	10.4	13.5	16.3	9.08	0.109	0.036	---	9
10	---	---	---	0.120	8.70	9.98	13.7	16.5	9.60	0.102	0.034	---	10
11	---	---	---	0.118	7.36	8.71	14.9	17.3	9.58	0.094	0.034	---	11
12	---	---	---	0.105	5.22	9.45	18.0	17.5	9.66	0.081	0.032	---	12
13	---	---	---	0.100	5.85	7.58	19.5	17.0	9.88	0.084	0.033	---	13
14	---	---	---	0.080	8.03	7.89	21.7	16.4	9.67	0.106	0.033	---	14
15	---	---	---	0.065	9.23	7.67	20.7	18.1	9.60	0.079	0.032	---	15
16	---	---	---	0.058	9.73	7.61	19.9	17.1	9.63	0.084	0.032	---	16
17	---	---	---	0.056	8.90	6.01	19.7	15.4	9.58	0.082	0.032	---	17
18	---	---	---	0.054	8.83	8.19	20.4	14.8	10.2	0.093	0.032	---	18
19	---	---	---	0.063	8.99	8.11	20.7	12.1	10.3	0.087	0.031	---	19
20	---	---	---	0.069	9.31	8.99	19.1	16.2	9.92	0.068	0.030	---	20
21	---	---	---	0.083	9.52	8.18	18.4	15.7	9.78	0.060	0.029	---	21
22	---	---	---	0.096	9.53	8.12	17.5	14.0	9.72	0.057	0.028	---	22
23	---	---	---	0.103	10.6	8.18	18.3	11.5	9.70	0.052	0.027	---	23
24	---	---	---	0.124	13.0	8.49	19.2	10.3	9.65	0.051	0.026	---	24
25	---	---	---	0.142	10.1	6.49	18.7	11.7	10.0	0.049	0.026	---	25
26	---	---	---	0.165	12.3	10.6	19.2	11.5	10.4	0.049	0.027	---	26
27	---	---	---	0.982	11.7	10.4	18.3	9.79	11.6	0.046	0.026	---	27
28	---	---	0.130A	6.29	8.29	11.1	18.1	8.41	12.5	0.044	0.026	---	28
29	---	---	0.130	7.66	10.7	12.8	17.1	8.11	12.8	0.042	0.025A	---	29
30	---	---	0.135	8.21	10.6	15.2	17.1	9.22	8.32	0.041	0.025E	---	30
31	---		0.135		10.3		17.3	9.50		0.040		---	31
TOTAL	---	---	---	25.921	259.41	266.69	531.1	445.93	291.81	4.164	0.966	---	TOTAL
MEAN	---	---	---	0.864	8.37	8.89	17.1	14.4	9.73	0.134	0.032	---	MEAN
MAX	---	---	---	8.21	13.0	15.2	21.7	18.1	12.8	1.38	0.042	---	MAX
MIN	---	---	---	0.054	3.88	6.01	12.6	8.11	7.82	0.040	0.025	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 7.48
MAXIMUM DAILY, 21.7 ON JUL 14
MINIMUM DAILY, 0.025A ON NOV 29
MAXIMUM INSTANTANEOUS,
22.2 AT 20:55 MST ON JUL 14

SUMMARY FOR THE MONTHS APR TO NOV

TYPE OF GAUGE - RECORDING
LOCATION - LAT 51 01 00 N
LONG 113 50 30 W

A - MANUAL GAUGE

E - ESTIMATED
REGULATED SINCE 1908

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	45 900
FEB	---	AUG	38 500
MAR	---	SEP	25 200
APR	2 240	OCT	360
MAY	22 400	NOV	83.5
JUN	23 000	DEC	---

TOTAL DISCHARGE, 158 000 dam³

WHIRLPOOL RIVER NEAR THE MOUTH - STATION NO. 07AA009

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	3.73	60.8	73.2	51.5	26.9	10.8	7.09	---	1
2	---	---	---	---	3.94	60.0	71.9	45.9	24.5	11.1	6.11B	---	2
3	---	---	---	---	4.03	49.2	69.2	40.3	21.4	9.68	5.97B	---	3
4	---	---	---	---	4.36	49.4	58.9	39.4	19.8	10.6	6.62B	---	4
5	---	---	---	---	5.87	41.5	53.0	44.3	19.7	12.4	5.74B	---	5
6	---	---	---	---	10.3	33.8	68.2	51.3	20.9	9.98	---	---	6
7	---	---	---	---	10.2	32.0	78.7	50.2	20.8	9.33	---	---	7
8	---	---	---	---	8.74	32.2	70.5	46.1	51.0	8.78	---	---	8
9	---	---	---	---	7.74	33.2	69.4	48.1	51.6	8.79	---	---	9
10	---	---	---	---	7.33	33.9	67.9	46.7	22.2	9.03	---	---	10
11	---	---	---	---	7.54	41.9	68.2	48.4	23.2	8.34	---	---	11
12	---	---	---	---	7.67	38.7	80.1	50.0	23.5	8.01	---	---	12
13	---	---	---	---	7.26	35.1	99.2	53.4	18.2	7.68	---	---	13
14	---	---	---	---	6.99	31.7	85.5	55.3	17.5	7.29	---	---	14
15	---	---	---	---	6.93	34.0	66.2	52.7	20.0	6.88	---	---	15
16	---	---	---	---	7.17	40.6	69.3	53.8	26.5	6.74	---	---	16
17	---	---	---	---	7.99	47.8	63.0	50.4	32.2	6.45	---	---	17
18	---	---	---	---	8.79	49.9	51.5	44.2	22.5	6.51	---	---	18
19	---	---	---	---	9.21	53.9	45.4	42.5	20.5	6.37	---	---	19
20	---	---	---	---	9.78	53.6	40.1	42.9	17.3	6.06	---	---	20
21	---	---	---	---	10.8	54.4	39.3	46.7	16.4	5.96	---	---	21
22	---	---	---	---	10.9	61.5	41.8	55.9	17.0	5.84	---	---	22
23	---	---	---	4.81A	12.1	83.8	47.2	54.2	19.8	5.71	---	---	23
24	---	---	---	5.13	22.9	94.2	50.3	39.1	22.8	5.66	---	---	24
25	---	---	---	5.04	20.8	83.5	49.0	31.1	22.4	7.94	---	---	25
26	---	---	---	4.82	27.7	74.2	52.3	28.4	18.1	12.4	---	---	26
27	---	---	---	4.53	35.3	62.7	57.7	24.8	14.6	9.64	---	---	27
28	---	---	---	4.10	39.0	62.7	55.1	22.5	13.1	9.39	---	---	28
29	---	---	---	3.84	43.3	58.1	49.0	23.8	12.8	8.66	---	---	29
30	---		---	3.63	55.8	64.6	51.1	31.1	11.4	8.14	---	---	30
31	---		---		59.7		53.1	30.7		7.61		---	31
TOTAL	---	---	---	---	476.07	1 558.9	1 893.3	1 345.9	612.6	257.56	---	---	TOTAL
MEAN	---	---	---	---	15.4	52.0	61.1	43.4	20.4	8.31	---	---	MEAN
MAX	---	---	---	---	59.7	94.2	99.2	55.9	32.2	12.4	---	---	MAX
MIN	---	---	---	---	3.73	31.7	39.3	22.5	11.4	5.66	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 38.5
MAXIMUM DAILY, 99.2 ON JUL 13
MINIMUM DAILY, 3.73 ON MAY 01
MAXIMUM INSTANTANEOUS,
106 AT 11:39 MST ON JUL 13

SUMMARY FOR THE MONTHS MAY TO SEP

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 43 29 N
LONG 117 55 29 W
DRAINAGE AREA, 598 km²

NATURAL FLOW

MONTHLY TOTAL DISCHARGE
IN CUBIC DECAMETRES

JAN	---	JUL	164 000
FEB	---	AUG	116 000
MAR	---	SEP	52 900
APR	---	OCT	257.56
MAY	41 200	NOV	---
JUN	135 000	DEC	---

TOTAL DISCHARGE, 509 000 dam³

WHISKEYJACK CREEK NEAR HINTON - STATION NO. 07AD004

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	0.020E	---	---	0.016	0.017	0.005	0.004	---	1
2	---	---	---	---	0.020E	---	---	0.014	0.012	0.005	0.004	---	2
3	---	---	---	---	0.020E	---	---	0.013	0.010	0.005	0.004	---	3
4	---	---	---	---	0.020E	---	---	0.012	0.009	0.005	0.005	---	4
5	---	---	---	---	0.020E	---	---	0.010	0.008	0.005	0.005	---	5
6	---	---	---	---	0.020E	---	---	0.009	0.007	0.005	0.006A	---	6
7	---	---	---	---	0.020E	---	---	0.008	0.006	0.005	0.005E	---	7
8	---	---	---	---	0.023A	---	0.132A	0.007	0.006	0.005	0.004A	---	8
9	---	---	---	---	0.022	---	0.094	0.007	0.006	0.007	---	---	9
10	---	---	---	---	0.022	---	0.076	0.006	0.005	0.007	---	---	10
11	---	---	---	---	0.022	---	0.062	0.006	0.005	0.007	---	---	11
12	---	---	---	---	0.025	---	0.053	0.006	0.006	0.006	---	---	12
13	---	---	---	---	0.028	---	0.045	0.006	0.005	0.006	---	---	13
14	---	---	---	---	0.027	---	0.039	0.006	0.005	0.006	---	---	14
15	---	---	---	---	0.029	---	0.035	0.006	0.005	0.005	---	---	15
16	---	---	---	---	0.030	---	0.033	0.006	0.019	0.005	---	---	16
17	---	---	---	---	0.033	---	0.032	0.007	0.033	0.005	---	---	17
18	---	---	---	---	0.032	---	0.029	0.007	0.018	0.005	---	---	18
19	---	---	---	---	0.031	---	0.027	0.006	0.013	0.005	---	---	19
20	---	---	---	---	0.031	---	0.025	0.006	0.010	0.005	---	---	20
21	---	---	---	---	0.036	---	0.023	0.005	0.009	0.005	---	---	21
22	---	---	---	---	0.038	---	0.020	0.005	0.009	0.005	---	---	22
23	---	---	---	---	0.035	---	0.019	0.009	0.008	0.004	---	---	23
24	---	---	---	0.009A	0.035	---	0.027	0.009	0.007	0.004	---	---	24
25	---	---	---	---	0.060	---	0.037	0.010	0.006	0.004	---	---	25
26	---	---	---	---	0.054	---	0.029	0.027	0.006	0.004	---	---	26
27	---	---	---	---	0.048	0.025A	0.026	0.015	0.006	0.005	---	---	27
28	---	---	---	---	0.047	---	0.022	0.010	0.006	0.005	---	---	28
29	---	---	---	---	0.050	---	0.020	0.009	0.006	0.005	---	---	29
30	---		---	---	0.093	---	0.018	0.017	0.006	0.004	---	---	30
31	---		---	---	0.129A		0.016	0.025		0.004		---	31
TOTAL	---	---	---	---	1.120	---	---	0.304	0.274	0.158	---	---	TOTAL
MEAN	---	---	---	---	0.036	---	---	0.010	0.009	0.005	---	---	MEAN
MAX	---	---	---	---	0.129	---	---	0.027	0.033	0.007	---	---	MAX
MIN	---	---	---	---	0.020	---	---	0.005	0.005	0.004	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 22 50 N
LONG 117 32 15 W
DRAINAGE AREA, 3.13 km²
A - MANUAL GAUGE

E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	26.3
MAR	---	SEP	23.7
APR	---	OCT	13.7
MAY	96.8	NOV	---
JUN	---	DEC	---

WHITEBURN DRAINAGE PROJECT NEAR SPIRIT RIVER - STATION NO. 07FD912

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.194B	0.050	0.012	0	0	0	0	---	---	1
2	---	---	---	0.187B	0.038	0.008	0	0	0	0	---	---	2
3	---	---	---	0.161B	0.026	0.007	0	0	0	0	---	---	3
4	---	---	---	0.110B	0.022	0.006	0.011	0	0	0	---	---	4
5	---	---	---	0.106B	0.019	0.004	0.009	0	0	0	---	---	5
6	---	---	---	0.095B	0.016	0.003	0.005	0					
7	---	---	---	0.061B	0.018	0.002	0	0	0	0	---	---	6
8	---	---	---	0.035B	0.018	0.002	0	0	0	0	---	---	7
9	---	---	---	0.022B	0.015	0.001	0	0	0	0	---	---	8
10	---	---	---	0.016B	0.010	0.001	0	0	0	0	---	---	9
11	---	---	---	0.014B	0.008	0.567	0	0	0	0	---	---	10
12	---	---	---	0.018B	0.006	4.93	0	0	0	0	---	---	11
13	---	---	---	0.022B	0.005	2.04	0	0	0	0	---	---	12
14	---	---	---	0.035	0.004	0.244	0	0	0	0	---	---	13
15	---	---	---	0.037	0.003	0.014	0	0	0	0	---	---	14
16	---	---	---	0.031	0.003	0	0	0	0	0	---	---	15
17	---	---	---	0.028	0.003	0	0	0	0	0	---	---	16
18	---	---	---	0.032	0.003	0	0	0	0	0B	---	---	17
19	---	---	---	0.031	0.003	0	0	0	0	0B	---	---	18
20	---	---	---	0.028	0.003	0	0	0	0	0B	---	---	19
21	---	---	---	0.023	0.003	0	0	0	0	0B	---	---	20
22	---	---	---	0.020	0.002	0	0	0	0	0B	---	---	21
23	---	---	---	0.018	0.002	0	0	0	0	0B	---	---	22
24	---	---	---	0.067	0.002	0	0	0	0	0B	---	---	23
25	---	---	---	0.589	0.009	0	0	0	0	0B	---	---	24
26	---	---	---	0.405	0.024	0	0	0	0	0B	---	---	25
27	---	---	---	0.175	0.013	0	0	0	0	0B	---	---	26
28	---	---	0.300B	0.101	0.007	0	0	0	0	0B	---	---	27
29	---	---	0.436B	0.070	0.007	0	0	0	0	0B	---	---	28
30	---		0.568B	0.061	0.014	0	0	0	0	0B	---	---	29
31	---		0.446B		0.028		0	0	0	0B	---	---	30
													31
TOTAL	---	---	---	2.792	0.384	7.841	0.025	0	0	0	---	---	TOTAL
MEAN	---	---	---	0.093	0.012	0.261	0.001	0	0	0	---	---	MEAN
MAX	---	---	---	0.589	0.050	4.93	0.011	0	0	0	---	---	MAX
MIN	---	---	---	0.014	0.002	0	0	0	0	0	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 4.93 ON JUN 12
MINIMUM DAILY, 0 ON JUN 16
MAXIMUM INSTANTANEOUS,
6.68 AT 14:35 MST ON JUN 12

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 51 00 N
LONG 119 08 00 W
DRAINAGE AREA, 9.43 km²

B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	2.16
FEB	---	AUG	0
MAR	---	SEP	0
APR	241	OCT	0
MAY	33.2	NOV	---
JUN	677	DEC	---

WHITE EARTH CREEK NEAR SMOKY LAKE - STATION NO. 05EC006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.110B	2.80B	2.27	0.300	0.022	0.008	0.212	0.074	0.075A	---	1
2	---	---	0.110B	2.41B	2.13	0.309	0.006	0.311	0.214	0.079	---	---	2
3	---	---	0.110B	2.63B	1.85	0.322	0.197	0.316	0.137	0.074	---	---	3
4	---	---	0.110B	1.75B	1.54	0.380	0.479	0.110	0.307	0.088	---	---	4
5	---	---	0.110B	2.29B	1.31	0.349	0.698	0.030	0.607	0.265	---	---	5
6	---	---	0.110B	2.30B	1.17	0.221	0.803	0.024	0.368	0.020	---	---	6
7	---	---	0.110B	2.83B	1.10	0.172	0.709	0.014	0.249	0.020	---	---	7
8	---	---	0.110B	3.17B	1.06	0.144	0.586	0.010	0.148	0.020	---	---	8
9	---	---	0.110B	3.40B	0.942	0.210	0.377	0.010	0.306	0.020	---	---	9
10	---	---	0.110B	3.92B	0.844	0.256	0.231	0.010	0.413	0.020	---	---	10
11	---	---	0.110B	3.97	0.773	0.283	0.166	0.010	0.377	0.018	---	---	11
12	---	---	0.109E	3.49	0.722	0.276	0.138	0.010	0.362	0.018	---	---	12
13	---	---	0.114B	3.27	0.665	0.260	0.120	0.010	0.324	0.018	---	---	13
14	---	---	0.120B	3.02	0.592	0.168	0.115	0.010	0.169	0.018	---	---	14
15	---	---	0.125B	2.74	0.555	0.262	0.083	0.010	0.091	0.018	---	---	15
16	---	---	0.131B	2.19	0.547	0.252	0.102	0.010	0.060	0.025	---	---	16
17	---	---	0.137B	1.78	0.517	0.050	0.148	0.054	0.120	0.030	---	---	17
18	---	---	0.143B	1.65	0.463	0.030	0.157	0.082	0.140	0.040	---	---	18
19	---	---	0.149B	1.46	0.401	0.020	0.094	0.076	0.070	0.050	---	---	19
20	---	---	0.154B	1.38	0.387	0.020	0.291	0.009	0.040	0.060	---	---	20
21	---	---	0.160B	1.33	0.318	0.015	0.348	0.015	0.045	0.090	---	---	21
22	---	---	0.165B	1.35	0.397	0.015	0.074	0.104	0.040	0.176	---	---	22
23	---	---	0.174B	1.25	0.261	0.015	0.004	0.265	0.035	0.144	---	---	23
24	---	---	0.183B	2.19	0.247	0.017	0.028	0.256	0.030	0.120	---	---	24
25	---	---	0.192B	2.18	0.242	0.045	0.018	0.141	0.054	0.108	---	---	25
26	---	---	0.201B	2.11	0.236	0.042	0.036	0.072	0.034	0.103	---	---	26
27	---	---	0.210B	2.15	0.316	0.014	0.123	0.135	0.014	0.108	---	---	27
28	---	---	0.220B	2.24	0.352	0.083	0.130	0.036	0.012	0.137	---	---	28
29	---	---	1.05 B	2.34	0.437	0.148	0.059	0.015	0.027	0.121	---	---	29
30	---		1.87 B	2.36	0.438	0.050	0.064	0.014	0.047	0.108	---	---	30
31	---		2.45 B		0.427		0.024	0.227		0.082		---	31
TOTAL	---	---	9.267	71.95	23.509	4.728	6.430	2.404	5.052	2.272	---	---	TOTAL
MEAN	---	---	0.299	2.40	0.758	0.158	0.207	0.078	0.168	0.073	---	---	MEAN
MAX	---	---	2.45	3.97	2.27	0.380	0.803	0.316	0.607	0.265	---	---	MAX
MIN	---	---	0.109	1.25	0.236	0.014	0.004	0.008	0.012	0.018	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.513
MAXIMUM DAILY, 3.97 ON APR 11
MINIMUM DAILY, 0.004 ON JUL 23

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 06 56 N
LONG 112 18 00 W
DRAINAGE AREA, 1 000 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	556
FEB	---	AUG	208
MAR	801	SEP	436
APR	6 220	OCT	196
MAY	2 030	NOV	---
JUN	408	DEC	---

TOTAL DISCHARGE, 10 900 dam³

WHITEMUD CREEK NEAR ELLERSLIE - STATION NO. 05DF006

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0 B	7.50 B	0.437	0.062	0.055	---	---	---	---	---	1
2	---	---	0 B	3.95	0.367	0.066	0.044	---	---	---	---	---	2
3	---	---	0 B	3.01	0.295	0.042	0.283	---	---	---	---	---	3
4	---	---	0.010B	2.45	0.238	0.054	4.21	---	---	---	---	---	4
5	---	---	0.030B	1.99	0.223	0.058	9.82	---	---	---	---	---	5
6	---	---	0.080B	1.46	0.222	0.069	7.29	---	0.005A	---	---	---	6
7	---	---	0.157B	1.12	0.222	0.066	7.24	---	---	---	---	---	7
8	---	---	0.221B	0.904	0.221	0.084	8.00	---	---	---	---	---	8
9	---	---	0.613B	0.734	0.238	0.064	6.02	---	---	---	---	---	9
10	---	---	0.901B	0.594	0.225	0.053	3.65	---	---	---	---	---	10
11	---	---	0.951B	0.520	0.221	0.048	2.47	---	---	---	---	---	11
12	---	---	0.885B	0.464	0.222	0.071	1.76	---	---	---	---	---	12
13	---	---	1.18 B	0.415	0.221	0.115	1.26	---	---	---	---	---	13
14	---	---	1.52 B	0.377	0.220	0.163	0.940	---	---	---	---	---	14
15	---	---	1.88 B	0.320	0.275	0.165	0.569	---	---	---	---	---	15
16	---	---	2.31 B	0.279	0.334	0.173	0.429	---	---	---	---	---	16
17	---	---	3.11 B	0.246	0.332	0.156	0.487	---	---	---	---	---	17
18	---	---	4.90 B	0.241	0.412	0.110	0.497	---	---	---	---	---	18
19	---	---	7.74 B	0.235	0.421	0.081	0.308	---	---	---	---	---	19
20	---	---	6.96 B	0.233	0.406	0.052	0.230	---	---	---	---	---	20
21	---	---	5.80 B	0.238	0.326	0.058	0.208	---	---	---	---	---	21
22	---	---	2.53 B	0.230	0.313	0.050	0.134A	---	---	---	---	---	22
23	---	---	1.80 B	0.232	0.313	0.045	---	---	---	---	---	---	23
24	---	---	1.10 B	2.38	0.313	0.037	---	---	---	---	---	---	24
25	---	---	0.962B	3.67	0.365	0.029	---	---	---	---	---	---	25
26	---	---	0.860B	3.03	0.311	0.022	---	---	---	---	---	---	26
27	---	---	2.43 B	1.82	0.254	0.031	0.048A	---	0.001A	---	---	---	27
28	---	0B	5.74 B	1.08	0.278	0.110	---	---	---	---	---	---	28
29	---		8.06 B	0.738	0.188	0.070	---	---	---	---	---	---	29
30	---		8.24 B	0.519	0.130	0.085	---	---	---	0.001A	---	---	30
31	---		8.22 B		0.091		---	---	---	---	---	---	31
TOTAL	---	---	79.190	40.979	8.636	2.289	---	---	---	---	---	---	TOTAL
MEAN	---	---	2.55	1.37	0.279	0.076	---	---	---	---	---	---	MEAN
MAX	---	---	8.24	7.50	0.437	0.173	---	---	---	---	---	---	MAX
MIN	---	---	0	0.230	0.091	0.022	---	---	---	---	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 9.82 ON JUL 05
MINIMUM DAILY, 0B ON MAR 01
MAXIMUM INSTANTANEOUS,
10.6 AT 11:34 MST ON JUL 05

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 24 44 N
LONG 113 35 30 W
DRAINAGE AREA, 335 km²

A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	---
FEB	---	AUG	---
MAR	6 040	SEP	---
APR	3 540	OCT	---
MAY	746	NOV	---
JUN	198	DEC	---

WHITEMUD RIVER NEAR DIXONVILLE - STATION NO. 07HA005

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.173B	10.3 B	14.3	13.7	7.50	1.73	0.124	0.039	---	---	1
2	---	---	0.194B	9.76B	16.2	12.3	11.9	1.57	0.136	0.193	---	---	2
3	---	---	0.204B	8.24B	19.8	11.3	27.9	1.46	0.144	0.138	---	---	3
4	---	---	0.224B	8.49B	22.0	10.7	35.1	1.34	0.149	0.101	---	---	4
5	---	---	0.240B	7.73B	24.3	9.98	29.2	1.24	0.116	0.073	---	---	5
6	---	---											
7	---	---	0.244B	7.10B	26.9	9.06	21.7	1.12	0.109	0.059	---	---	6
8	---	---	0.248B	6.60B	30.5	8.51	16.3	1.27	0.111	0.053	---	---	7
9	---	---	0.256B	5.69B	32.7	8.30	12.7	0.936	0.108	0.056	---	---	8
10	---	---	0.250B	5.55B	32.5	8.02	10.8	0.769	0.107	0.050	---	---	9
			0.245B	4.87B	31.0	7.68	9.06	0.688	0.106	0.052	---	---	10
11	---	---											
12	---	---	0.245B	4.41B	28.4	7.89	7.96	0.601	0.109	0.052	---	---	11
13	---	---	0.255B	3.63B	24.8	12.1	6.99	0.515	0.097	0.057	---	---	12
14	---	---	0.275B	3.42B	21.2	43.8	6.02	0.434	0.084	0.086	---	---	13
15	---	---	0.305B	3.20B	18.1	68.3	5.28	0.380	0.076	0.211	---	---	14
			0.335B	3.10B	15.8	75.0	4.89	0.307	0.079	0.200	---	---	15
16	---	---											
17	---	---	0.350B	3.20B	13.7	75.1	4.56	0.278	0.082	0.184	---	---	16
18	---	---	0.355B	3.50E	12.4	81.1	4.37	0.264	0.079	0.310	---	---	17
19	---	---	0.360B	3.90E	11.7	77.8	4.20	0.282	0.079	0.325	---	---	18
20	---	---	0.360B	4.55A	10.7	64.9	4.26	0.319	0.081	0.304	---	---	19
			0.350B	5.98	9.90	57.1	4.33	0.323	0.084	0.296	---	---	20
21	---	---											
22	---	---	0.346B	10.4	9.57	47.3	4.00	0.305	0.084	0.315B	---	---	21
23	---	---	0.342B	16.5	9.93	35.4	3.62	0.469	0.074	0.320B	---	---	22
24	---	---	0.320B	25.6	9.71	26.1	3.36	0.385	0.064	0.260B	---	---	23
25	---	---	0.310B	28.6	9.40	20.1	3.16	0.256	0.056	0.290B	---	---	24
			0.290B	32.1	9.47	15.4	2.87	0.204	0.046	0.272B	---	---	25
26	---	---											
27	---	---	0.300B	33.5	10.0	11.9	2.72	0.209	0.039	0.295B	---	---	26
28	---	---	0.295B	30.7	12.0	9.16	2.59	0.195	0.036	0.264B	---	---	27
29	---	---	0.396B	22.6	17.0	6.52	2.38	0.183	0.038	0.256B	---	---	28
30	---	---	0.912B	17.7	19.5	5.44	2.20	0.148	0.041	0.224B	---	---	29
31	---	---	3.22 B	15.0	18.0	5.32	2.04	0.135	0.040	0.290B	---	---	30
			7.20 B		15.8		1.90	0.117		0.228B		---	31
TOTAL	---	---	19.399	347.92	556.58	845.28	265.84	18.451	2.578	5.853	---	---	TOTAL
MEAN	---	---	0.626	11.6	18.0	28.2	8.58	0.595	0.086	0.189	---	---	MEAN
MAX	---	---	7.20	33.5	32.5	81.1	35.1	1.73	0.149	0.325	---	---	MAX
MIN	---	---	0.173	3.10	9.40	5.32	1.90	0.117	0.036	0.039	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 8.42
MAXIMUM DAILY, 81.1 ON JUN 17
MINIMUM DAILY, 0.036 ON SEP 27
MAXIMUM INSTANTANEOUS,
85.7 AT 22:30 MST ON JUN 17

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 56 30 40 N
LONG 117 39 32 W
DRAINAGE AREA, 2 010 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	23 000
FEB	---	AUG	1 590
MAR	1 680	SEP	223
APR	30 100	OCT	506
MAY	46 100	NOV	---
JUN	73 000	DEC	---

TOTAL DISCHARGE, 178 000 dam³

WILDHAY RIVER NEAR HINTON - STATION NO. 07AC001

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	---	3.10	51.6	23.7	21.0	11.8	7.88	4.00B	---	1
2	---	---	---	---	3.13	47.9	24.4	19.0	11.2	7.86	3.92B	---	2
3	---	---	---	---	3.22	43.3	28.9	17.9	10.8	7.46	3.70B	---	3
4	---	---	---	---	3.30	39.8	29.2	16.6	10.3	7.44	3.56B	---	4
5	---	---	---	---	3.56	36.3	27.0	15.6	9.79	7.41	3.61B	---	5
6	---	---	---	---									
7	---	---	---	---	4.88	32.7	55.3	14.9	9.53				
8	---	---	---	---	5.39	29.8	101	14.0	9.13	7.06	3.66B	---	6
9	---	---	---	---	5.21	27.9	78.5	13.3	8.59	6.73	3.72B	---	7
10	---	---	---	---	5.06	26.2	65.0	12.8	8.44	6.61	---	---	8
					5.15	25.2	55.5	12.4	8.10	6.74	---	---	9
11	---	---	---	---						6.64	---	---	10
12	---	---	---	---	5.57	33.2	47.1	11.9	7.91				
13	---	---	---	---	5.74	41.1	40.6	11.5	8.05	6.45	---	---	11
14	---	---	---	---	6.00	62.9	35.9	11.8	7.92	6.33	---	---	12
15	---	---	---	---	6.60	62.2	31.1	11.4	7.59	6.05	---	---	13
					6.95	57.9	28.4	11.1	7.32	5.73	---	---	14
16	---	---	---	---						5.14	---	---	15
17	---	---	---	---	7.33	55.6	27.0	10.9	9.38				
18	---	---	---	---	8.01	54.5	25.1	11.2	14.5	4.91	---	---	16
19	---	---	---	---	8.80	52.9	23.8	11.5	13.3	4.63B	---	---	17
20	---	---	---	---	9.13	48.3	22.8	10.7	12.3	4.64	---	---	18
					9.37	43.8	21.3	10.0	11.7	4.51	---	---	19
21	---	---	---	---						4.39B	---	---	20
22	---	---	---	---	10.0	39.6	20.0	9.53	11.2				
23	---	---	---	---	10.6	37.5	18.8	9.63	10.8	4.19	---	---	21
24	---	---	---	---	11.0	36.8	18.0	9.73	10.4	4.09	---	---	22
25	---	---	---	3.48A	11.6	35.0	22.0	9.45	10.0	3.93	---	---	23
				3.58	13.6	32.4	20.6	9.63	9.63	4.15	---	---	24
26	---	---	---	---						4.05	---	---	25
27	---	---	---	3.28	16.9	30.0	20.1	13.0	9.22				
28	---	---	---	3.05	19.1	28.1	20.2	11.7	8.82	4.85	---	---	26
29	---	---	---	2.94	22.0	26.8	19.2	10.9	8.61	4.92	---	---	27
30	---	---	---	2.92	25.4	25.8	18.4	9.90	8.40	5.18	---	---	28
31	---	---	---	2.92	31.9	24.3	17.5	11.1	8.12	5.01	---	---	29
					55.5		22.1	12.4		4.86	---	---	30
TOTAL	---	---	---	---	343.10	1 189.4	1 008.7	386.27	292.85	4.21B		---	31
MEAN	---	---	---	---	11.1	39.6	32.5	12.5	9.76	174.07	---	---	TOTAL
MAX	---	---	---	---	55.5	62.9	101	21.0	14.5	5.62	---	---	MEAN
MIN	---	---	---	---	3.10	24.3	17.5	9.45	7.32	7.88	---	---	MAX
										3.93	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 18.4
MAXIMUM DAILY, 101 ON JUL 07
MINIMUM DAILY, 3.10 ON MAY 01
MAXIMUM INSTANTANEOUS,
116 AT 02:17 MST ON JUL 07

SUMMARY FOR THE MONTHS MAY TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 31 24 N
LONG 117 56 49 W
DRAINAGE AREA, 959 km²
B - ICE CONDITIONS
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	87 200
FEB	---	AUG	33 400
MAR	---	SEP	25 300
APR	---	OCT	15 000
MAY	29 600	NOV	---
JUN	103 000	DEC	---

TOTAL DISCHARGE, 294 000 dam³

WILLOW CREEK ABOVE CHAIN LAKES - STATION NO. 05AB028

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.085B	0.060B	0.158B	0.275B	1.37	11.7	0.904	1.39	0.486	0.143	0.270	0.180B	1
2	0.080B	0.070B	0.160B	0.382B	2.44	18.6	0.869	1.31	0.481	0.134	0.248	0.170B	2
3	0.080B	0.080B	0.165B	0.400B	2.99	12.8	0.847	1.22	0.489	0.153	0.225B	0.160B	3
4	0.084B	0.085B	0.170B	0.277B	3.69	10.8	0.771	0.947	0.465	0.151	0.192B	0.171B	4
5	0.085B	0.085B	0.180B	0.231B	4.46	9.16	0.723	0.792	0.389	0.262	0.193B	0.159B	5
6	0.090B	0.085B	0.197B	0.321B	5.45	7.87	0.673	0.690	0.374	0.268	0.257B	0.192B	6
7	0.095B	0.085B	0.169B	0.344	4.87	6.81	1.03	0.620	0.352	0.241	0.213B	0.213B	7
8	0.095B	0.080B	0.175B	0.376	4.08	5.83	0.964	0.549	0.322	0.250	0.208B	0.224B	8
9	0.095B	0.075B	0.177B	0.323	3.78	5.17	0.728	0.513	0.304	0.269	0.196B	0.210B	9
10	0.095B	0.075B	0.180B	0.290B	3.97	4.79	0.624	0.461	0.303	0.313	0.244B	0.202B	10
11	0.095B	0.080B	0.192B	0.270B	3.67	4.36	0.540	0.449	0.287	0.291	0.237B	0.187B	11
12	0.095B	0.080B	0.165B	0.296	3.38	3.89	0.483	0.458	0.285	0.300	0.251B	0.180B	12
13	0.095B	0.075B	0.141B	0.299	3.31	4.82	0.434	0.670	0.399	0.290	0.298B	0.170B	13
14	0.095B	0.071B	0.127B	0.478	3.04	5.65	0.382	0.568	0.344	0.280	0.299B	0.190B	14
15	0.095B	0.070B	0.138B	0.619	2.94	3.99	0.375	0.492	0.308	0.262	0.209B	0.220B	15
16	0.095B	0.065B	0.124B	0.640	2.78	3.88	0.360	0.670	0.270	0.271	0.274B	0.210B	16
17	0.090B	0.065B	0.138B	0.621	2.72	3.64	0.361	0.965	0.259	0.242	0.255B	0.217B	17
18	0.090B	0.070B	0.126B	0.728	2.74	3.11	0.662	3.77	0.259	0.255	0.191B	0.187B	18
19	0.095B	0.080B	0.160B	0.950	2.89	2.76	1.74	4.20	0.253	0.249	0.190B	0.189B	19
20	0.100B	0.090B	0.210B	1.15	3.04	2.80	0.988	2.81	0.270	0.236	0.164B	0.182B	20
21	0.110B	0.090B	0.170B	1.26	2.95	2.74	0.747	1.86	0.249	0.240	0.153B	0.164B	21
22	0.105B	0.090B	0.144B	1.33	2.88	2.19	0.602	1.29	0.237	0.230	0.168B	0.150B	22
23	0.100B	0.090B	0.175B	1.29	2.88	1.91	0.594	1.01	0.216	0.235	0.177B	0.139B	23
24	0.097B	0.090B	0.159B	1.24	5.49	1.68	0.582	1.29	0.199	0.255	0.165B	0.119B	24
25	0.095B	0.095B	0.171B	1.19	23.7 A	1.53	1.96	1.38	0.186	0.230	0.155B	0.115B	25
26	0.095B	0.100B	0.146B	1.22	26.2 A	1.30	4.89	1.67	0.180	0.263	0.140B	0.122B	26
27	0.095B	0.120B	0.199B	1.13	19.1	1.19	3.66	1.16	0.185	0.263	0.147B	0.109B	27
28	0.090B	0.140B	0.220B	0.896	16.0	1.17	2.86	0.877	0.192	0.288	0.160B	0.081B	28
29	0.085B		0.270B	0.821	13.1	1.07	2.34	0.745	0.176	0.271	0.180B	0.084B	29
30	0.080B		0.335B	0.922	17.1	0.986	1.90	0.571	0.139	0.256	0.200B	0.094B	30
31	0.070B		0.327B		13.0		1.54	0.542		0.242		0.104B	31
TOTAL	2.851	2.341	5.568	20.569	216.91	148.226	36.213	36.039	8.858	7.600	6.259	5.094	TOTAL
MEAN	0.092	0.084	0.180	0.686	7.00	4.94	1.17	1.16	0.295	0.245	0.209	0.164	MEAN
MAX	0.110	0.140	0.335	1.33	26.2	18.6	4.89	4.20	0.489	0.313	0.299	0.224	MAX
MIN	0.070	0.060	0.124	0.231	1.37	0.986	0.360	0.449	0.139	0.134	0.140	0.081	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 1.36
MAXIMUM DAILY, 26.2A ON MAY 26
MINIMUM DAILY, 0.060B ON FEB 01
MAXIMUM INSTANTANEOUS, 29.7A ON MAY 25

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 11 47 N
LONG 114 12 46 W
DRAINAGE AREA, 162 km²
A - MANUAL GAUGE
B - ICE CONDITIONS

NATURAL FLOW

REMARKS - PEAK DISCHARGE ESTIMATED FROM HIGH WATER MARKS. TIMING OF PEAK WAS ESTIMATED

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	246	JUL 3	130
FEB	202	AUG 3	110
MAR	481	SEP	765
APR 1	780	OCT	657
MAY 18	700	NOV	541
JUN 12	800	DEC	440

TOTAL DISCHARGE, 42 900 dam³

WILLOW CREEK BELOW LANE CREEK - STATION NO. 05AB039

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.689B	1.52	1.50	25.6	2.62	3.24	1.11	0.306	---	---	1
2	---	---	0.657B	1.71	2.29	36.1	2.48	3.28	0.991	0.293	---	---	2
3	---	---	0.739B	1.99	3.62	34.7	2.38	3.86	0.952	0.288	---	---	3
4	---	---	0.527B	1.46	3.92	27.3	2.18	3.69	0.892	0.292	---	---	4
5	---	---	0.465B	1.02	3.85	22.4	1.93	2.33	0.837	0.418	---	---	5
6	---	---	0.472B	0.931	4.18	19.4	1.88	1.97	0.773	0.604	---	---	6
7	---	---	0.514B	1.05	4.04	17.1	2.27	1.68	0.731	0.495	---	---	7
8	---	---	0.631B	1.04	3.41	14.6	3.05	1.49	0.676	0.440	---	---	8
9	---	---	0.686B	0.915	2.91	12.6	2.35	1.32	0.632	0.428	---	---	9
10	---	---	0.457B	0.770	3.10	11.3	2.04	1.27	0.575	0.447	---	---	10
11	---	---	0.494B	0.756	3.27	10.4	1.78	1.18	0.527	0.472	---	---	11
12	---	---	0.414B	0.820	3.03	9.56	1.55	1.12	0.500	0.458	---	---	12
13	---	---	0.364B	0.791	2.91	10.4	1.41	1.20	0.566	0.442	---	---	13
14	---	---	0.335B	0.751	2.74	13.2	1.30	1.31	0.553	0.432	---	---	14
15	---	---	0.303B	1.22	2.53	10.9	1.19	1.27	0.530	0.411	---	---	15
16	---	---	0.339B	1.29	2.46	9.31	1.11	1.21	0.474	0.422	---	---	16
17	---	---	0.279B	1.21	2.36	8.82	1.07	1.40	0.443	0.408	---	---	17
18	---	---	0.483B	1.11	2.32	7.95	1.38	2.54	0.420	0.461	---	---	18
19	---	---	0.499B	1.20	2.87	7.26	2.37	4.30	0.405	0.403	---	---	19
20	---	---	0.540B	1.38	3.17	6.72	3.65	4.70	0.406	0.382	---	---	20
21	---	---	0.420B	1.49	2.94	6.57	2.57	3.86	0.383	0.418	---	---	21
22	---	---	0.341B	1.55	2.69	5.92	2.10	3.05	0.369	0.374	---	---	22
23	---	---	0.314B	1.47	2.98	5.43	1.77	2.48	0.346	0.365	---	---	23
24	---	---	0.300B	1.35	4.87	4.85	1.66	2.29	0.336	0.382	---	---	24
25	---	---	0.521B	1.26	28.1 A	4.42	2.05	2.32	0.319	0.352	---	---	25
26	---	0.788B	0.736	1.34	45.9 A	4.00	4.96	2.69	0.309	0.349	---	---	26
27	---	0.928B	0.784	1.49	42.2 A	3.64	6.21	2.52	0.307	0.347	---	---	27
28	---	0.941B	1.04	1.55	35.0	3.30	5.94	2.10	0.299	0.352	---	---	28
29	---		1.67	1.67	44.9	3.06	5.09	1.76	0.299	0.349A	---	---	29
30	---		1.89	1.03	37.1	2.76	4.17	1.44	0.297	0.350E	---	---	30
31	---		1.97		31.5		3.65	1.26		0.350E		---	31
TOTAL	---	---	19.873	36.934	336.26	359.57	81.16	69.33	16.251	12.290	---	---	TOTAL
MEAN	---	---	0.641	1.23	10.8	12.0	2.62	2.24	0.542	0.397	---	---	MEAN
MAX	---	---	1.97	1.99	45.9	36.1	6.21	4.70	1.11	0.604	---	---	MAX
MIN	---	---	0.279	0.756	1.50	2.76	1.07	1.12	0.297	0.288	---	---	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 3.80
MAXIMUM DAILY, 45.9A ON MAY 26
MINIMUM DAILY, 0.279B ON MAR 17
MAXIMUM INSTANTANEOUS, 54.5A ON MAY 26

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 08 25 N
LONG 113 56 21 W
DRAINAGE AREA, 727 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1966

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL 7	010
FEB	---	AUG 5	990
MAR 1	720	SEP 1	400
APR 3	190	OCT 1	060
MAY 29	100	NOV	---
JUN 31	100	DEC	---

TOTAL DISCHARGE, 80 600 dam³

WILLOW CREEK NEAR CLARESHOLM - STATION NO. 05AB021

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.400B	0.350B	1.15 B	1.79	1.07	27.0	2.27	3.41	0.997	0.303	0.420	0.580B	1
2	0.500B	0.343B	1.15 B	1.55	1.44	29.5	2.13	3.00	0.876	0.287	0.427	0.569B	2
3	0.596B	0.394B	0.943B	1.80	2.63	36.1	2.04	3.39	0.825	0.281	0.327B	0.695B	3
4	0.650B	0.459B	1.05 B	1.82	3.31	28.5	1.91	3.18	0.789	0.294	0.330B	0.826B	4
5	0.700B	0.557B	1.07 B	1.41	3.69	23.8	1.65	2.39	0.730	0.311	0.350B	0.783B	5
6	0.580B	0.514B	1.09 B	1.02	3.72	20.3	1.51	1.99	0.687	0.408	0.360B	0.779B	6
7	0.691B	0.460B	0.802B	0.961	3.95	17.8	1.61	1.68	0.633	0.650	0.350B	0.840B	7
8	0.688B	0.410B	0.750B	1.04	3.62	15.5	2.30	1.44	0.568	0.601	0.330B	0.838B	8
9	0.691B	0.390B	0.770B	1.02	3.13	13.3	2.10	1.25	0.501	0.544	0.310B	0.767B	9
10	0.580B	0.411B	0.800B	0.829	2.78	11.9	1.72	1.12	0.471	0.518	0.340B	0.689B	10
11	0.640B	0.507B	0.915B	0.676	2.92	10.8	1.45 A	1.06	0.420	0.518	0.370B	0.658B	11
12	0.567B	0.473B	0.900B	0.673	3.02	9.58	1.35 E	0.971	0.334	0.547	0.400B	0.600B	12
13	0.484B	0.404B	0.926B	0.774	2.79	9.38	1.20 E	0.896	0.399	0.511	0.543B	0.658B	13
14	0.470B	0.340B	0.900B	0.730	2.63	12.8	1.05 E	0.976	0.404	0.506	0.498B	0.665B	14
15	0.460B	0.333B	0.870B	0.872	2.45	12.0	1.00 E	0.918	0.413	0.486	0.420B	0.715B	15
16	0.470B	0.298B	0.830B	1.15	2.30	9.55	0.970E	0.956	0.438	0.466	0.358B	0.755B	16
17	0.490B	0.280B	0.809B	1.19	2.18	8.67	0.940A	0.875	0.376	0.407	0.568B	0.720B	17
18	0.600B	0.270B	0.635B	1.13	2.18	7.97	1.02	2.04	0.363	0.425	0.560B	0.686B	18
19	0.722B	0.260B	0.806B	1.03	2.33	7.03	1.88	2.89	0.326	0.502	0.520B	0.534B	19
20	0.552B	0.300B	1.06 B	1.06	2.90	6.36	3.57	3.85	0.308	0.420	0.470B	0.466B	20
21	0.605B	0.383B	0.900B	1.19	2.99	6.17	2.69	3.62	0.303	0.422	0.440B	0.319B	21
22	0.625B	0.680B	0.750B	1.24	2.70	5.71	2.10	2.82	0.281	0.488	0.410B	0.280B	22
23	0.626B	0.758B	0.600B	1.30	2.49	5.19	1.73	2.29	0.263	0.434	0.380B	0.260B	23
24	0.740B	1.09 B	0.580B	1.20	3.45	4.69	1.46	1.94	0.258	0.418	0.350B	0.240B	24
25	0.684B	1.06 B	0.600B	1.07	18.5 A	4.23	1.56	1.91	0.262	0.454	0.330B	0.230B	25
26	0.648B	1.31 B	0.642B	1.17	41.6 A	3.81	2.86	2.13	0.269	0.424	0.310B	0.220B	26
27	0.600B	1.26 B	0.598B	1.26	44.7 A	3.45	5.41	2.27	0.304	0.410	0.290B	0.220B	27
28	0.540B	1.16 B	0.757B	1.65	36.2 A	3.12	5.52	1.92	0.302	0.391	0.356	0.210B	28
29	0.490B		0.827B	1.50	30.9 A	2.81	5.09	1.67	0.293	0.417	0.430	0.210B	29
30	0.463B		1.54 B	1.23	38.3 A	2.48	4.15	1.37	0.287	0.415	0.620B	0.210B	30
31	0.400B		1.94 B		32.5		3.54	1.12		0.412		0.210B	31
TOTAL	17.954	15.454	27.960	35.335	317.37	359.50	69.860	61.282	13.680	13.700	12.167	16.432	TOTAL
MEAN	0.579	0.552	0.902	1.18	10.2	12.0	2.25	1.98	0.456	0.442	0.406	0.530	MEAN
MAX	0.740	1.31	1.94	1.82	44.7	36.1	5.52	3.85	0.997	0.650	0.620	0.840	MAX
MIN	0.400	0.260	0.580	0.673	1.07	2.48	0.940	0.875	0.258	0.281	0.290	0.210	MIN

SUMMARY FOR THE YEAR 1990

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 2.63
MAXIMUM DAILY, 44.7A ON MAY 27
MINIMUM DAILY, 0.210B ON DEC 28
MAXIMUM INSTANTANEOUS,
45.8A AT 22:40 MST ON MAY 26

TYPE OF GAUGE - RECORDING
LOCATION - LAT 50 01 05 N
LONG 113 42 30 W
DRAINAGE AREA, 1 160 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
REGULATED SINCE 1966

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	1 550	JUL	6 040
FEB	1 340	AUG	5 290
MAR	2 420	SEP	1 180
APR	3 050	OCT	1 180
MAY	27 400	NOV	1 050
JUN	31 100	DEC	1 420

TOTAL DISCHARGE, 83 000 dam³

REMARKS - PEAK DISCHARGE ESTIMATED FROM HIGH WATER MARKS. TIMING OF PEAK ESTIMATED FROM LOG PLOTS OF ABOVE AND BELOW STATIONS

WILLOW CREEK NEAR NOLAN - STATION NO. 05AB002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.722B	1.60	1.44	34.4	2.68	3.98	1.57	0.843	0.525A	---	1
2	---	---	0.724B	1.63	1.25	29.9	2.43	3.91	1.43	0.798	---	---	2
3	---	---	0.724B	1.40	1.20	41.9	2.43	3.62	1.30	0.716	---	---	3
4	---	---	0.722B	1.44	1.87	36.1	2.37	3.89	1.19	0.720	---	---	4
5	---	---	0.715B	1.70	2.34	30.2	2.58	3.75	1.13	0.905	---	---	5
6	---	---	0.702B	1.48	2.47	25.8	3.01	2.80	1.02	0.909	---	---	6
7	---	---	0.693B	1.11	2.68	22.4	3.09	2.23	0.936	0.895	---	---	7
8	---	---	0.688B	1.00	3.06	19.9	3.84	1.90	0.864	0.946	---	---	8
9	---	---	0.660B	0.995B	3.06	17.3	3.96	1.54	0.846	1.11	---	---	9
10	---	---	0.625B	0.963B	2.51	15.5	2.99	1.14	0.803	1.10	---	---	10
11	---	---	0.600B	1.01	2.25	13.8	2.33	1.15	0.710	1.05	---	---	11
12	---	---	0.585B	0.842	2.44	12.8	1.89	1.11	0.772	1.04	---	---	12
13	---	---	0.600B	0.735	2.63	12.2	1.48	1.25	1.03	1.04	---	---	13
14	---	---	1.15 B	0.685	2.47	13.3	1.14	1.07	0.907	1.05	---	---	14
15	---	---	2.20 B	0.674	2.25	15.5	1.15	0.998	0.863	0.985	---	---	15
16	---	---	1.20 B	0.635	2.23	12.9	1.24	1.08	0.826	0.738	---	---	16
17	---	---	1.09 B	0.849	1.98	11.2	1.52	1.14	0.842	0.606	---	---	17
18	---	---	1.03 B	1.02	1.88	10.4	1.36	1.27	0.845	0.617	---	---	18
19	---	---	0.930B	0.931	2.01	9.15	1.29	2.31	0.810	0.553	---	---	19
20	---	---	0.880B	0.803	2.77	7.95	2.36	3.40	0.794	0.501	---	---	20
21	---	---	0.950B	0.708	3.14	7.39	4.14	4.16	0.882	0.618	---	---	21
22	---	---	1.02 B	0.693	3.12	7.21	3.32	3.85	0.836	0.548	---	---	22
23	---	---	1.08 B	0.775	2.67	6.67	2.63	3.14	0.786	0.499	---	---	23
24	---	---	1.11 B	0.777	2.53	6.01	2.37	2.75	0.825	0.519	---	---	24
25	---	---	1.14 B	0.654	6.32	5.37	2.29	2.52	0.868	0.494	---	---	25
26	---	0.672B	1.17 B	0.578	34.4	4.59	2.78	2.53	0.814	0.483	---	---	26
27	---	0.695B	1.09	0.600	47.3	4.04	4.21	2.91	0.756	0.495	---	---	27
28	---	0.705B	0.940	1.19	44.3	3.69	6.20	2.72	0.763	0.488	---	---	28
29	---		0.893	1.65	39.9	3.37	6.02	2.96	0.833	0.483	---	---	29
30	---		0.956	1.62	46.3	3.05	5.60	1.95	0.858	0.489	---	---	30
31	---		1.20		40.8		4.67	1.76		0.513		---	31
TOTAL	---	---	28.789	30.747	315.57	443.99	89.37	74.088	27.709	22.751	---	---	TOTAL
MEAN	---	---	0.929	1.02	10.2	14.8	2.88	2.39	0.924	0.734	---	---	MEAN
MAX	---	---	2.20	1.70	47.3	41.9	6.20	4.16	1.57	1.11	---	---	MAX
MIN	---	---	0.585	0.578	1.20	3.05	1.14	0.998	0.710	0.483	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.22
MAXIMUM DAILY, 47.3 ON MAY 27
MINIMUM DAILY, 0.483 ON OCT 26
MAXIMUM INSTANTANEOUS,
49.2 AT 08:25 MST ON MAY 30

TYPE OF GAUGE - RECORDING
LOCATION - LAT 49 47 33 N
LONG 113 32 13 W
DRAINAGE AREA, 2 290 km²
B - ICE CONDITIONS
REGULATED SINCE 1966

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	7 720
FEB	---	AUG	6 400
MAR	2 490	SEP	2 390
APR	2 660	OCT	1 970
MAY	27 300	NOV	---
JUN	38 400	DEC	---

TOTAL DISCHARGE, 89 300 dam³

WILLOW RIVER NEAR WABASCA - STATION NO. 07JA003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	0.357B	0.724B	6.97	5.38	5.44A	1.08 A	0.963	0.208	---	---
2	---	---	0.371B	0.764B	7.94	5.03	5.14A	1.04	0.884	0.206	---	---
3	---	---	0.387B	0.847B	10.1	4.78	6.71A	1.01	0.906	0.213	---	---
4	---	---	0.377B	0.902B	12.4	4.44	5.95A	0.983	0.982	0.220	---	---
5	---	---	0.364B	0.966B	14.5	4.07	5.45A	0.939	0.822	0.282	---	---
6	---	---	0.357B	1.07 B	15.2	4.13	6.23A	0.919	0.718	0.309	---	---
7	---	---	0.364B	1.04 B	15.5	4.07	8.77A	0.899	0.660	0.294	---	---
8	---	---	0.371B	1.03 B	14.3	4.10	10.0 A	0.876	0.624	0.393	---	---
9	---	---	0.360B	1.01 B	13.7	4.01	8.82A	0.857	0.596	0.335	---	---
10	---	---	0.372B	0.987B	13.3	4.32	7.19A	0.832	0.567	0.311	---	---
11	---	---	0.390B	0.958B	12.5	5.66	6.12A	0.811	0.541	0.371	---	---
12	---	---	0.396B	0.938B	11.0	28.0	5.25A	0.780	0.517	0.491	---	---
13	---	---	0.396B	0.918B	9.40	62.8	4.30A	0.776	0.492	0.689	---	---
14	---	---	0.398B	0.912B	8.23	79.3	3.63A	0.755	0.474	0.702	---	---
15	---	---	0.396B	0.963B	7.17	56.0	3.08A	0.749	0.451	0.755	---	---
16	---	---	0.396B	1.09 B	6.50	34.3 A	2.65A	0.788	0.429	0.760	---	---
17	---	---	0.399B	1.24 B	6.03	27.2 A	2.32A	0.808	0.413	0.740	---	---
18	---	---	0.390B	1.50	5.51	23.3 A	2.34A	1.00	0.382	0.684	---	---
19	---	---	0.385B	1.53	5.09	20.4 A	2.30A	0.990	0.359	0.736	---	---
20	---	---	0.360B	2.38	4.81	18.5 A	2.13A	0.974	0.334	0.572	---	---
21	---	---	0.365B	4.33	4.73	16.5 A	2.03A	0.960	0.317	0.683	---	---
22	---	---	0.346B	7.28	4.97	14.4 A	2.00A	1.02	0.309	0.717	---	---
23	---	---	0.348B	8.41 A	5.10	12.2 A	1.83A	1.22	0.290	0.669	---	---
24	---	---	0.348B	9.37 A	5.92	10.1 A	1.75A	2.11	0.275	0.686	---	---
25	---	---	0.375B	10.9 A	9.69	8.58A	1.61A	1.84	0.260	0.756	---	---
26	---	---	0.417B	14.8	10.5	7.50A	1.53A	1.79	0.328	0.722	---	---
27	---	0.353B	0.479B	13.1	9.50	7.33A	1.42A	1.63	0.237	0.599	---	---
28	---	0.357B	0.624B	10.5	8.39	7.29A	1.37A	1.49	0.222	0.622	---	---
29	---		0.764B	8.56	7.28	6.74A	1.29A	1.31	0.219	0.551	---	---
30	---		0.744B	7.18	6.53	5.89A	1.23A	1.19	0.211	0.556A	---	---
31	---		0.736B		5.99		1.15A	1.08		0.560E		---
TOTAL	---	---	13.132	116.194	278.75	496.32	121.03	33.506	14.782	16.412	---	---
MEAN	---	---	0.424	3.87	8.99	16.5	3.90	1.08	0.493	0.529	---	---
MAX	---	---	0.764	14.8	15.5	79.3	10.0	2.11	0.982	0.760	---	---
MIN	---	---	0.346	0.724	4.73	4.01	1.15	0.749	0.211	0.206	---	---

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 4.45
MAXIMUM DAILY, 79.3 ON JUN 14
MINIMUM DAILY, 0.206 ON OCT 02
MAXIMUM INSTANTANEOUS,
86.2 AT 19:00 MST ON JUN 14

SUMMARY FOR THE MONTHS MAR TO OCT

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 55 01 N
LONG 113 55 13 W
DRAINAGE AREA, 1 030 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	10 500
FEB	---	AUG	2 890
MAR	1 130	SEP	1 280
APR	10 000	OCT	1 420
MAY	24 100	NOV	---
JUN	42 900	DEC	---

TOTAL DISCHARGE, 94 200 dam³

WINAGAMI LAKE AT PROVINCIAL PARK - STATION NO. 07BF006

DAILY WATER LEVEL IN METRES FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	---	---	---	---	---	---	621.706	---	---	621.424	621.443	---
2	---	---	---	621.639	---	621.704	621.696	---	---	621.444	---	---
3	---	---	---	---	621.697	621.708	621.706	---	---	621.444	---	---
4	---	---	---	---	---	---	---	621.585	621.494	621.429	---	---
5	---	---	---	---	---	621.731	---	621.580	---	621.429	---	---
6	---	---	---	621.649	---	---	621.700	621.585	621.489	---	---	---
7	---	---	---	---	---	---	621.703	---	621.489	---	---	---
8	---	---	---	---	---	---	621.700	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	621.423	---	---
10	---	---	---	---	---	---	621.693	621.560	621.484	---	---	---
11	---	---	---	---	621.687	---	---	621.555	621.474	621.423	---	---
12	---	---	---	---	---	---	---	---	621.474	621.428	---	---
13	---	---	---	---	---	---	---	---	621.469	---	---	---
14	---	---	---	---	621.682	---	621.680	---	---	---	---	---
15	---	621.632	---	---	621.677	---	621.655	---	---	621.443	---	---
16	---	---	---	---	---	621.781	621.655	---	---	621.438	---	---
17	---	---	---	---	621.667	621.776	621.665	621.525	621.474	621.438	---	---
18	---	---	---	---	621.666	621.776	---	621.525	621.464	---	---	---
19	---	---	---	---	---	621.755	---	621.525	---	621.433	---	---
20	---	---	---	---	621.666	---	621.650	---	621.469	---	---	---
21	---	---	---	---	621.666	---	621.645	621.520	---	---	---	---
22	---	---	---	---	621.666	621.731	621.650	---	---	---	---	---
23	---	---	621.621	621.665	---	621.736	621.645	621.524	---	621.433	---	---
24	---	---	---	---	---	621.721	---	621.504	621.470	621.428	---	---
25	---	---	---	---	621.668	---	---	621.504	---	---	---	---
26	---	---	---	---	621.671	621.716	621.633	621.494	621.449	621.433	---	---
27	---	---	---	---	621.671	---	621.640	621.494	621.449	---	---	---
28	---	---	---	---	---	---	621.625	---	621.429	---	---	---
29	---		---	---	621.666	621.706	---	---	---	621.443	---	---
30	---		---	---	---	621.701	---	621.484	---	---	---	---
31	---		---		---		---	621.494		621.438		---
MEAN	---	---	---	---	---	---	---	---	---	---	---	---
MAX	---	---	---	---	---	---	---	---	---	---	---	---
MIN	---	---	---	---	---	---	---	---	---	---	---	---

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - MANUAL
LOCATION - LAT 55 37 27 N
LONG 116 40 51 W

A - MANUAL GAUGE
E - ESTIMATED
REGULATED
DRAINAGE AREA,
2 350 km²

WATER LEVELS ARE REFERRED TO APPROXIMATE GEODETIC SURVEY OF CANADA DATUM

WOLF CREEK AT HIGHWAY NO. 16A - STATION NO. 07AG003

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	1.38B	1.13 B	0.983B	4.50B	7.88	31.1	6.87	3.40E	4.70	1.50	0.676B	1.11 B	1
2	1.37B	1.08 B	0.968B	5.60B	7.90	27.9	6.39	3.20E	4.18	1.47	0.545B	1.11 B	2
3	1.35B	1.05 B	0.985B	5.80B	7.48	23.1	22.2	3.00E	3.52	1.44	0.500B	1.09 B	3
4	1.34B	1.03 B	1.01 B	5.60B	7.10	21.1	81.3	2.80E	2.93	1.49	0.526B	1.07 B	4
5	1.39B	1.02 B	1.05 B	4.90B	6.55	29.0	74.9	2.60E	2.53	1.65	0.616B	1.07 B	5
6	1.43B	1.01 B	1.06 B	4.30B	6.04	32.5	56.3	2.55E	2.23	1.72	0.572B	1.05 B	6
7	1.42B	1.00 B	1.05 B	3.80B	5.53	24.2	69.4	2.40E	2.05	1.77	0.502B	1.00 B	7
8	1.42B	0.996B	1.07 B	3.45B	5.02	17.7	62.5	2.35E	1.83	1.80	0.527B	0.963B	8
9	1.41B	1.03 B	1.03 B	3.30B	5.02	13.6	47.3	2.30E	1.71	1.93	0.544B	0.918B	9
10	1.45B	1.04 B	1.00 B	3.30B	5.13	10.0	35.7	2.30E	1.59	2.16	0.535B	0.935B	10
11	1.41B	1.01 B	0.862B	3.80B	4.77	16.6	26.7	2.20E	1.56	2.43	0.501B	0.948B	11
12	1.39B	0.974B	0.790B	5.20B	4.67	25.0 A	20.7	2.05E	1.57	2.54	0.546B	1.01 B	12
13	1.32B	0.983B	0.823B	5.90B	5.03	86.7 E	16.4	2.00E	1.51	2.54	0.646B	1.04 B	13
14	1.27B	1.00 B	0.754B	6.60B	5.34	70.0 E	13.4	2.15E	1.48	2.44	0.687B	0.995B	14
15	1.27B	1.02 B	0.761B	7.10B	4.98	55.0 E	10.5	2.30E	1.47	2.33	0.715B	1.02 B	15
16	1.31B	0.993B	0.795B	7.80B	4.59	43.0 E	9.17	2.45E	1.62	2.19	0.754B	1.06 B	16
17	1.33B	0.932B	0.812B	7.50B	4.48	34.0 E	9.35	2.70E	1.50	1.88 B	0.756B	1.07 B	17
18	1.33B	0.908B	0.875B	7.10B	4.84	26.5 E	9.15	3.20E	2.56	1.61 B	0.748B	1.02 B	18
19	1.34B	0.881B	0.995B	8.61B	4.85	22.0 E	7.89	4.00E	2.91	1.83 B	0.728B	0.940B	19
20	1.32B	0.868B	1.27 B	9.62	5.65	19.0 E	6.90	3.50E	2.59	1.43 B	0.700B	0.955B	20
21	1.27B	0.857B	1.30 B	9.68	9.57	16.0 E	6.02	3.10E	2.37	1.30 B	0.697B	1.02 B	21
22	1.26B	0.859B	1.19 B	9.66	26.3	13.3 E	5.31	2.80E	2.17	1.50 B	0.687B	0.979B	22
23	1.29B	0.869B	1.47 B	9.38	27.3	11.5 E	4.70	2.70E	2.01	1.35 B	0.656B	0.859B	23
24	1.30B	0.880B	1.65 B	9.80	21.1	10.0 E	4.43A	3.10E	1.98	1.34 B	0.614B	0.829B	24
25	1.30B	0.872B	1.44 B	10.9	24.7	10.2 E	4.65E	5.00E	1.77	1.23	0.584B	0.801B	25
26	1.26B	0.895B	1.28 B	10.4	33.5	10.0 A	5.00E	4.80E	1.67	1.01	0.634B	0.829B	26
27	1.30B	0.964B	1.17 B	9.37	28.6	9.59	4.80E	5.40E	1.58	0.897B	0.795B	0.901B	27
28	1.30B	1.02 B	1.33 B	8.37	21.9	8.79	5.10E	2.47A	1.54	0.726B	0.879B	0.862B	28
29	1.21B		1.54 B	7.89	16.7	7.93	4.20E	2.24	1.51	0.976B	1.03 B	0.802B	29
30	1.20B		2.36 B	7.77	14.3	7.61	3.90E	2.15	1.48	0.835B	1.10 B	0.814B	30
31	1.19B		3.50 B		27.7		3.60E	2.65		0.894B		0.837B	31
TOTAL	41.13	27.171	37.173	207.08	364.72	732.92	644.73	89.86	64.42	50.208	20.008	29.907	TOTAL
MEAN	1.33	0.970	1.20	6.90	11.8	24.4	20.8	2.90	2.15	1.62	0.667	0.965	MEAN
MAX	1.45	1.13	1.50	10.9	33.5	86.7	81.3	5.40	4.70	2.54	1.10	1.11	MAX
MIN	1.19	0.857	0.754	3.30	4.48	7.61	3.60	2.00	1.47	0.726	0.500	0.801	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 6.33
MAXIMUM DAILY, 86.7E ON JUN 13
MINIMUM DAILY, 0.500B ON NOV 03
MAXIMUM INSTANTANEOUS,
102 ON JUN 13

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 53 35 55 N
LONG 116 16 15 W
DRAINAGE AREA, 829 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	3 550	JUL	55 700
FEB	2 350	AUG	7 760
MAR	3 210	SEP	5 570
APR	17 900	OCT	4 340
MAY	31 500	NOV	1 730
JUN	63 300	DEC	2 580

REMARKS - PEAK DISCHARGE WAS DERIVED FROM HIGH WATER MARK

TOTAL DISCHARGE, 199 000 dam³

WOLF RIVER AT OUTLET OF WOLF LAKE - STATION NO. 06AB002

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	0.057B	0.150B	0.350B	0.450B	1.57	1.55	0.790E	0.180E	0.062	0.020	0.012	0.004B	1
2	0.056B	0.155B	0.371B	0.458B	1.60	1.54	0.760E	0.165E	0.058	0.019	0.011	0.004B	2
3	0.058B	0.163B	0.385B	0.460B	1.62	1.47	0.765E	0.150E	0.054	0.019	0.011	0.003B	3
4	0.061B	0.190B	0.398B	0.455B	1.64	1.42	0.800E	0.140E	0.052	0.019	0.011B	0.004B	4
5	0.066B	0.240B	0.400B	0.438B	1.79	1.25	0.842E	0.130E	0.047	0.019	0.010B	0.001B	5
6	0.072B	0.285B	0.405B	0.410B	1.82	1.17	0.895E	0.122E	0.047	0.019	0.009B	0.002B	6
7	0.092B	0.291B	0.416B	0.385B	1.74	1.18	0.950E	0.112E	0.042	0.019	0.008B	0.002B	7
8	0.115B	0.290B	0.416B	0.380B	1.86	1.19	0.995E	0.102E	0.044	0.020	0.007B	0.002B	8
9	0.130B	0.280B	0.406B	0.375B	2.26	1.17	0.970E	0.094E	0.041	0.019	0.007B	0 B	9
10	0.142B	0.280B	0.402B	0.380B	2.29	1.14	0.900E	0.087E	0.040	0.017	0.007B	0 B	10
11	0.145B	0.275B	0.400B	0.390B	2.33	1.16	0.860E	0.080E	0.039	0.018	0.007B	0 B	11
12	0.145B	0.270B	0.395B	0.400B	2.37	1.15	0.760E	0.073E	0.042	0.018	0.006B	0 B	12
13	0.145B	0.265B	0.395B	0.460B	2.38	1.16	0.700E	0.066E	0.044	0.016	0.006B	0 B	13
14	0.145B	0.260B	0.395B	0.533B	2.36	1.16 A	0.650E	0.060E	0.044	0.017	0.006B	0 B	14
15	0.143B	0.255B	0.394B	0.565B	2.39	1.20 E	0.600E	0.055E	0.041	0.017	0.006B	0 B	15
16	0.140B	0.250B	0.392B	0.600B	2.39	1.28 E	0.580E	0.050E	0.040	0.017	0.006B	0 B	16
17	0.137B	0.248B	0.390B	0.650B	2.27	1.30 E	0.540E	0.047E	0.035	0.016	0.006B	0 B	17
18	0.137B	0.247B	0.390B	0.705B	2.30	1.29 E	0.500E	0.047E	0.036	0.016	0.006B	0 B	18
19	0.140B	0.246B	0.390B	0.770B	2.34	1.24 E	0.445E	0.048E	0.035	0.015	0.005B	0 B	19
20	0.148B	0.247B	0.389B	0.805B	2.38	1.19 E	0.420E	0.049E	0.033	0.015	0.004B	0 B	20
21	0.160B	0.249B	0.385B	0.818E	2.36	1.14 E	0.405E	0.049E	0.035	0.015	0.004B	0 B	21
22	0.165B	0.252B	0.382B	0.818E	2.27	1.11 E	0.375E	0.046E	0.034	0.013	0.004B	0 B	22
23	0.170B	0.260B	0.380B	0.840E	2.27	1.06 E	0.350E	0.040A	0.035	0.014	0.004B	0 B	23
24	0.172B	0.270B	0.380B	0.930E	2.18	1.03 E	0.335E	0.038	0.032	0.014	0.004B	0 B	24
25	0.171B	0.280B	0.385B	1.05 A	2.06	0.995E	0.305E	0.036	0.030	0.013	0.004B	0 B	25
26	0.170B	0.295B	0.390B	1.06	1.80	0.985E	0.280E	0.037	0.027	0.013	0.004B	0 B	26
27	0.165B	0.305B	0.400B	1.08	1.82	0.915E	0.250E	0.034	0.025	0.014	0.004B	0 B	27
28	0.155B	0.320B	0.412B	1.28	1.85	0.885E	0.235E	0.031	0.025	0.012	0.005B	0 B	28
29	0.152B		0.425B	1.52	1.89	0.850E	0.215E	0.029	0.022	0.013	0.005B	0 B	29
30	0.150B		0.430B	1.55	1.69	0.820E	0.210E	0.026	0.021	0.012	0.005B	0 B	30
31	0.148B		0.438B		1.69		0.190E	0.060		0.013		0 B	31
TOTAL	4.052	7.108	12.286	21.035	63.58	35.000	17.872	2.293	1.162	0.501	0.194	0.022	TOTAL
MEAN	0.131	0.254	0.396	0.701	2.05	1.17	0.577	0.074	0.039	0.016	0.007	0.001	MEAN
MAX	0.172	0.320	0.438	1.55	2.39	1.55	0.995	0.180	0.062	0.020	0.012	0.004	MAX
MIN	0.056	0.150	0.350	0.375	1.57	0.820	0.190	0.029	0.021	0.012	0.004	0	MIN

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.452
MAXIMUM DAILY, 2.39 ON MAY 15
MINIMUM DAILY, 0B ON DEC 09
MAXIMUM INSTANTANEOUS,
2.45 AT 17:14 MST ON MAY 16

SUMMARY FOR THE YEAR 1990

TYPE OF GAUGE - RECORDING
LOCATION - LAT 54 42 47 N
LONG 111 00 03 W
DRAINAGE AREA, 725 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	350	JUL	1 540
FEB	614	AUG	198
MAR	1 060	SEP	100
APR	1 820	OCT	43.3
MAY	5 490	NOV	16.8
JUN	3 020	DEC	1.90

REMARKS - PEAK DISCHARGE TIMING WAS UNABLE TO BE VERIFIED DUE TO FLATNESS OF TRACE.

TOTAL DISCHARGE, 14 300 dam³

YOUNG CREEK NEAR CASTOR - STATION NO. 05FC007

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	0.060B	0.800	0.001	0.002	0.004	0.001	0	0	---	---	1
2	---	---	0.300B	0.647	0.001	0.002	0.133	0.001	0	0	---	---	2
3	---	---	0.500B	0.408	0.001	0.002	9.84	0.001	0	0	---	---	3
4	---	---	0.869B	0.208	0.001	0.003	1.98	0.001	0	0	---	---	4
5	---	---	1.01 B	0.112	0.001	0.273	0.531	0.001	0	0	---	---	5
6	---	---	0.700B	0.076	0.001	0.244	1.89	0.001	0	0	---	---	6
7	---	---	0.664B	0.053	0.001	0.166	5.13	0.001	0	0	---	---	7
8	---	---	0.923B	0.048	0.001	0.036	0.907	0.001	0	0	---	---	8
9	---	---	0.888B	0.048	0.001	0.006	0.324	0.001	0	0	---	---	9
10	---	---	0.576B	0.047	0.001	0	0.130	0.001	0	0	---	---	10
11	---	---	0.137B	0.042	0.001	0.001	0.114	0.001	0	0	---	---	11
12	---	---	0.121B	0.038	0.001	0.001	0.077	0.001	0	0	---	---	12
13	---	---	0.078B	0.028	0.001	0.522	0.045	0	0	0	---	---	13
14	---	---	0.058B	0.023	0.001	0.294	0.041	0	0	0	---	---	14
15	---	---	0.049B	0.018	0.001	0.084	0.025	0	0	0	---	---	15
16	---	---	0.059B	0.017	0.001	0.023	0.031	0	0	0	---	---	16
17	---	---	0.065B	0.015	0.001	0.004	0.031	0	0	0	---	---	17
18	---	---	0.140B	0.009	0.001	0.002	0.030	0	0	0	---	---	18
19	---	---	0.550B	0.004	0.001	0.002	0.030	0	0	0	---	---	19
20	---	---	1.18 B	0.001	0.001	0.002	0.028	0	0	0	---	---	20
21	---	0 B	0.690B	0.001	0.001	0.002	0.026	0	0	0	---	---	21
22	---	0 B	0.493B	0.001	0.001	0.002	0.020	0	0	0	---	---	22
23	---	0 B	0.384B	0.001	0.001	0.002	0.018	0	0	0	---	---	23
24	---	0 B	0.388B	0.001	0.001	0.002	0.017	0	0	0	---	---	24
25	---	0 B	0.393B	0.001	0.001	0.002	0.016	0	0	0	---	---	25
26	---	0 B	0.409B	0.001	0.002	0.002	0.014	0	0	0	---	---	26
27	---	0 B	0.996B	0.001	0.002	0.003	0.010	0	0	0	---	---	27
28	---	0.005B	2.71 B	0.001	0.002	0.003	0.006	0	0	0	---	---	28
29	---		3.07 B	0.001	0.002	0.003	0.004	0	0	0A	---	---	29
30	---		2.10	0.001	0.002	0.003	0.002	0	0	0E	---	---	30
31	---		1.41		0.002		0.002	0		0E		---	31
TOTAL	---	---	21.970	2.652	0.037	1.693	21.456	0.012	0	0	---	---	TOTAL
MEAN	---	---	0.709	0.088	0.001	0.056	0.692	0	0	0	---	---	MEAN
MAX	---	---	3.07	0.800	0.002	0.522	9.84	0.001	0	0	---	---	MAX
MIN	---	---	0.049	0.001	0.001	0	0.002	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MEAN, 0.195
MAXIMUM DAILY, 9.84 ON JUL 03
MINIMUM DAILY, 0 ON JUN 10
MAXIMUM INSTANTANEOUS,
18.5 AT 08:17 MST ON JUL 03

TYPE OF GAUGE - RECORDING
LOCATION - LAT 52 15 32 N
LONG 111 43 44 W
DRAINAGE AREA, 76.7 km²
A - MANUAL GAUGE
B - ICE CONDITIONS
E - ESTIMATED
NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	1 850
FEB	---	AUG	1.04
MAR	1 900	SEP	0
APR	229	OCT	0
MAY	3.20	NOV	---
JUN	146	DEC	---

TOTAL DISCHARGE, 4 130 dam³

YOUNG DRAINAGE PROJECT NEAR SPIRIT RIVER - STATION NO. 07FD913

DAILY DISCHARGE IN CUBIC METRES PER SECOND FOR 1990

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	DAY
1	---	---	---	0.098B	0.011	0.018	0	0	0	0	---	---	1
2	---	---	---	0.109B	0.007	0.016	0	0	0	0	---	---	2
3	---	---	---	0.064B	0	0.012	0.016	0	0	0	---	---	3
4	---	---	---	0.033B	0	0.012	0.031	0	0	0	---	---	4
5	---	---	---	0.021B	0	0.018	0.022	0	0	0	---	---	5
6	---	---	---	0.018	0	0.028	0.004	0	0	0	---	---	6
7	---	---	---	0.012	0	0.018	0	0	0	0	---	---	7
8	---	---	---	0.004B	0	0.004	0	0	0	0	---	---	8
9	---	---	---	0.002B	0.005	0	0	0	0	0	---	---	9
10	---	---	---	0 B	0.011	0	0	0	0	0	---	---	10
11	---	---	---	0.001B	0.007	2.02	0	0	0	0	---	---	11
12	---	---	---	0.007	0.004	9.58	0	0	0	0	---	---	12
13	---	---	0.008B	0.010	0.004	2.31	0	0	0	0	---	---	13
14	---	---	---	0.015	0.004	0.316	0	0	0	0	---	---	14
15	---	---	---	0.014	0.006	0.156	0	0	0	0B	---	---	15
16	---	---	---	0.011	0.007	0.091	0	0	0	0B	---	---	16
17	---	---	---	0.003	0.003	0.056	0	0	0	0B	---	---	17
18	---	---	---	0	0	0.040	0	0	0	0B	---	---	18
19	---	---	---	0	0	0.032	0	0	0	0B	---	---	19
20	---	---	---	0	0	0.024	0	0	0	0B	---	---	20
21	---	---	---	0	0	0.016	0	0	0	0B	---	---	21
22	---	---	---	0	0	0.012	0	0	0	0B	---	---	22
23	---	---	---	0	0	0.009	0	0	0	0B	---	---	23
24	---	---	---	0	0	0.004	0	0	0	0	---	---	24
25	---	---	---	0.072	0	0	0	0	0	0	---	---	25
26	---	---	---	0.173	0	0	0	0	0	0	---	---	26
27	---	---	---	0.089	0.009	0	0	0	0	0	---	---	27
28	---	---	0.494B	0.062	0.001	0	0	0	0	0	---	---	28
29	---	---	0.491B	0.042	0	0	0	0	0	0B	---	---	29
30	---		0.329B	0.023	0	0	0	0	0	0B	---	---	30
31	---		0.175B		0.011		0	0		0B		---	31
TOTAL	---	---	---	0.883	0.090	14.792	0.073	0	0	0	---	---	TOTAL
MEAN	---	---	---	0.029	0.003	0.493	0.002	0	0	0	---	---	MEAN
MAX	---	---	---	0.173	0.011	9.58	0.031	0	0	0	---	---	MAX
MIN	---	---	---	0	0	0	0	0	0	0	---	---	MIN

SUMMARY FOR THE MONTHS MAR TO OCT

DISCHARGES IN CUBIC METRES PER SECOND

MAXIMUM DAILY, 9.58 ON JUN 12
MINIMUM DAILY, 0B ON APR 10
MAXIMUM INSTANTANEOUS,
12.7 AT 00:59 MST ON JUN 12

TYPE OF GAUGE - RECORDING
LOCATION - LAT 55 48 00 N
LONG 118 47 00 W
DRAINAGE AREA, 31.6 km²

B - ICE CONDITIONS

NATURAL FLOW

MONTHLY TOTAL DISCHARGE IN CUBIC DECAMETRES

JAN	---	JUL	6.31
FEB	---	AUG	0
MAR	---	SEP	0
APR	76.3	OCT	0
MAY	7.78	NOV	---
JUN	1 280	DEC	---

NAME	STATION NO.	PAGE
ADAMS CREEK NEAR KINUSO	07BJ004	1
AETNA CREEK AT HIGHWAY NO. 501	05AE912	1
ALBERTA POWER LIMITED COOLING POND OUTLET	05CG007	2
ALKALI CREEK NEAR THE MOUTH	05CK005	2
AMISK CREEK NEAR SHONTS	05EB016	3
AMISK RIVER AT HIGHWAY NO. 36	06AA002	3
ATHABASCA RIVER ABOVE JACKFISH CREEK	07DD007	4
ATHABASCA RIVER AT ATHABASCA	07BE001	4
ATHABASCA RIVER AT HINTON	07AD002	5
ATHABASCA RIVER BELOW MCMURRAY	07DA001	5
ATHABASCA RIVER NEAR JASPER	07AA002	6
ATHABASCA RIVER NEAR OLD FORT	07DD011	6
ATHABASCA RIVER NEAR WINDFALL	07AE001	7
ATIM CREEK NEAR SPRUCE GROVE	05EA009	7
ATIMOSWE CREEK NEAR ELK POINT	05ED002	8
BABETTE CREEK NEAR COLINTON	07CA008	8
BAPTISTE LAKE NEAR ATHABASCA	07BE002	9
BAPTISTE RIVER NEAR THE MOUTH	05DC012	9
BARE CREEK RESERVOIR NEAR ELKWATER	11AB094	10
BARRIER LAKE NEAR SEEBE	05BF024	10
BATTERSEA DRAIN NEAR THE MOUTH	05AD038	11
BATTLE RIVER NEAR FORESTBURG	05FC001	11
BATTLE RIVER NEAR PONOKA	05FA001	12
BATTLE RIVER NEAR THE SASKATCHEWAN BOUNDARY	05FE004	12
BEAR CREEK NEAR INTERNATIONAL BOUNDARY	11AA028	13
BEAR CREEK NEAR VALHALLA CENTRE	07GE007	13
BEAR LAKE NEAR CLAIRMONT	07GE004	14
BEARBERRY CREEK NEAR SUNDRE	05CA011	14
BEAVER CREEK NEAR BROCKET	05AB013	15
BEAVER LAKE AT RANGER STATION	06AA003	15
BEAVER RIVER ABOVE SYNCRUDE	07DA018	16
BEAVER RIVER AT COLD LAKE RESERVE	06AD006	16
BEAVER RIVER NEAR GOODRIDGE	06AA001	17
BEAVERDAM CREEK NEAR COCHRANE	05CB005	17
BEAVERLODGE RIVER NEAR BEAVERLODGE	07GD001	18
BEAVERTAIL CREEK NEAR HYTHE	07GD002	18
BEDDINGTON CREEK NEAR CALGARY	05BH904	19
BELLY - ST. MARY DIVERSION CANAL	05AD021	19
BELLY RIVER NEAR GLENWOOD	05AD041	20
BELLY RIVER NEAR MOUNTAIN VIEW	05AD005	20
BERLAND RIVER NEAR THE MOUTH	07AC007	21
BERRY CREEK BELOW DEADFISH CREEK	05CH016	21
BERRY CREEK NEAR ROSE LYNN	05CH008	22
BERRY CREEK NEAR THE MOUTH	05CH007	22
BERRY CREEK RESERVOIR NEAR SUNNYNOOK	05CH014	23
BERRY CREEK RESERVOIR OUTLET	05CH011	23
BIGELOW RESERVOIR NEAR WIMBORNE	05CE901	24
BIGKNIFE CREEK NEAR GADSBY	05FC002	24
BIRCH CREEK NEAR CONKLIN	07CE006	25
BIRCH RIVER BELOW ALICE CREEK	07KE001	25
BLACKMUD CREEK NEAR ELLERSLIE	05DF003	26
BLINDMAN RIVER NEAR BLACKFALDS	05CC001	26
BLINDMAN RIVER NEAR BLUFFTON	05CC008	27
BLOCK CREEK NEAR LEEDALE	05CC010	27
BLOOD INDIAN CREEK NEAR CABIN LAKE	05CK007	28
BLOOD INDIAN CREEK NEAR THE MOUTH	05CK001	28
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BOW RIVER AT CALGARY	05BH004	30
BOW RIVER AT LAKE LOUISE	05BA001	30
BOW RIVER BELOW BASSANO DAM	05BM004	31
BOW RIVER BELOW BEARSPAW DAM	05BH008	31
BOW RIVER BELOW CARSELAND DAM	05BM002	32
BOW RIVER DEVELOPMENT DRAIN "A" NEAR HAYS	05AG004	32
BOW RIVER DEVELOPMENT DRAIN D NEAR VAUXHALL	05BN008	33
BOW RIVER DEVELOPMENT DRAIN T NEAR HAYS	05AG005	33
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BOYER RIVER NEAR PADDLE PRAIRIE	07JF004	36
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BRAZEAU RIVER BELOW BRAZEAU PLANT	05DD005	37
BRAZEAU RIVER BELOW CARDINAL RIVER	05DD007	37
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BREWSTER CREEK NEAR BANFF	05BB004	38
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CATARACT CREEK NEAR FORESTRY ROAD	05BL022	46
CAVAN LAKE DIVERSION NEAR DUNMORE	05AH044	47
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CHRISTMAS CREEK NEAR BLUE RIDGE	07AH002	50
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CLEARWATER RIVER ABOVE CHRISTINA RIVER	07CD005	51
CLEARWATER RIVER ABOVE LIMESTONE CREEK	05DB003	51
CLEARWATER RIVER AT DRAPER	07CD001	52
CLEARWATER RIVER NEAR DOVERCOURT	05DB006	52
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COAL LAKE RESERVOIR NEAR WETASKIWIN	05FA016	53
COLD LAKE AT COLD LAKE	06AF002	54
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COLUMBINE CREEK NEAR THE MOUTH	06AA004	55
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